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## 500 CONTRACTORS

RECEIVING THE LARGEST DOLLAR VOLUME  
OF PRIME CONTRACT AWARDS  
FOR RDT&E

Fiscal Year 1990

500



DTIC FILE COPY

# 500 CONTRACTORS RECEIVING THE LARGEST DOLLAR VOLUME OF PRIME CONTRACT AWARDS FOR RESEARCH, DEVELOPMENT, TEST, AND EVALUATION

FISCAL YEAR 1990



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## FOREWORD

*500 Contractors Receiving the Largest Dollar Volume of Prime Contract Awards for Research, Development, Test and Evaluation (RDT&E)* is published annually. This report provides information on the 500 contractors that received the largest dollar volume in Department of Defense (DoD) prime contract awards over \$25,000 for RDT&E. These data are presented in five tables showing:

1. An alphabetical listing of the top 500 companies, with rank;
2. The ranking and net value of awards to business firms operating in the United States;
3. The ranking and net value of awards to educational and other nonprofit Institutions operating in the United States;
4. The ranking and net value of awards to foreign contractors; and
5. The ranking and net value of awards to U.S. government agencies.

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## INTRODUCTION

This report presents summary data on the 500 prime contractors receiving the largest dollar volume in Department of Defense (DoD) awards over \$25,000 for research, development, test and evaluation (RDT&E) work during Fiscal Year (FY) 1990. RDT&E work can include research, exploratory development, advanced development, engineering development, operational systems development, or management and support services. (Full definitions for each of these categories are provided in DFARS 235.001.)

Table 1 (page 9) lists the 500 contractors in alphabetical order, shows the ranking for each, and shows how each has been categorized for reporting purposes. The categories are business firm (B), foreign contractor (F), and nonprofit institution (N). Table 2 (page 15) shows the net value of awards to U.S. business firms by rank. Those firms which qualify as small businesses are further identified by an "S". The net value of awards to each of the firm's reported locations is also provided. Tables 3, 4, and 5 (pages 31, 35, and 37, respectively) provide the net value of awards to U.S. educational and other nonprofit institutions, foreign contractors, and U.S. government agencies. (While awards to U.S. government agencies are listed separately in Table 5, these agencies are categorized as nonprofit institutions in Table 1.) As in Table 2, contractors in Tables 3 through 5 are shown by rank, with their total awards indicated by an asterisk (\*). The next value of awards to each of the contractor's reported locations are also shown for these tables.

## NOTES ON COVERAGE

The dollar amounts shown here include prime contract awards over \$25,000 for RDT&E work only. Data on awards for other services, such as training, and on any supplies furnished by the contractors in support of research being done are excluded. Contract awards for civil functions have been included in these data. Civil functions encompass planning, programming, designing, constructing, and operating Federal water resource projects for navigation, flood control, hydroelectric power production, water supply, and other related activities.

The locations shown in the tables are the places where the work was to be performed. Normally, this is a facility of the concern awarded the contract. However, if the work was scheduled to be performed at a Defense facility, such as an Air Force base, the location shown may be that of the Defense facility rather than the contractor.

**DATA RELATING TO COMPANIES IN THIS PUBLICATION ARE SUBJECT TO THE ACCURACY OF THE DUN & BRADSTREET CORPORATION'S DATA UNIVERSAL NUMBERING SYSTEM AND ITS ABILITY TO DESCRIBE RELATIONSHIPS OF COMPANIES.**

## HIGHLIGHTS

The following table shows the net value and percent distribution of all RDT&E awards. RDT&E awards to the top 500 companies, and all other RDT&E awards for FY 1990.

### Department of Defense Prime Contract Awards Over \$25,000 Fiscal Year 1990

TYPE OF CONTRACTOR	RDT&E								
	TOTAL			TOP 500			ALL OTHER		
	NO.	AWARDS (\$000)	% OF TOTAL \$	NO.	AWARDS (\$000)	% OF TOTAL \$	NO.	AWARDS (\$000)	% OF TOTAL \$
RDT&E - TOTAL	<u>2,718</u>	<u>22,318,911</u>	<u>100</u>	<u>500</u>	<u>21,511,471</u>	<u>100</u>	<u>2,218</u>	<u>807,440</u>	<u>100</u>
BUSINESS FIRMS	<u>2,332</u>	<u>19,253,111</u>	<u>86</u>	<u>408</u>	<u>18,567,883</u>	<u>86</u>	<u>1,924</u>	<u>685,228</u>	<u>85</u>
Small Large	1,793 539	1,653,875 17,599,236	7 79	175 233	1,089,883 17,478,000	5 81	1,618 306	563,992 121,236	70 15
EDUCATIONAL & NONPROFIT	<u>280</u>	<u>2,844,680</u>	<u>13</u>	<u>82</u>	<u>2,751,340</u>	<u>13</u>	<u>198</u>	<u>93,340</u>	<u>12</u>
Educational Other Nonprofit	200 80	1,500,130 1,344,550	7 6	56 26	1,427,200 1,324,140	7 6	144 54	72,930 20,410	9 3
U.S. GOVERNMENT AGENCIES	<u>7</u>	<u>7,431</u>	*	<u>1</u>	<u>4,976</u>	*	<u>6</u>	<u>2,455</u>	*
FOREIGN	<u>99</u>	<u>213,689</u>	<u>1</u>	<u>9</u>	<u>187,272</u>	<u>1</u>	<u>90</u>	<u>26,417</u>	<u>3</u>

\*LESS THAN 0.5 PERCENT

NOTE: TOTALS MAY NOT ADD DUE TO ROUNDING

Based on the percentage of total awards, the distribution of FY 1990 awards varies moderately from that in FY 1989. In FY 1990, the top 500 contractors included 408 U.S. business firms (175 of which were small businesses); 82 educational and nonprofit institutions; 1 U.S. government agency; and 9 foreign contractors.

In FY 1989 the top 500 consisted of 392 business firms (175 were small businesses); 92 educational and nonprofit institutions; 2 U.S. government agencies; and 14 foreign contractors.

The top 500 RDT&E contractors received awards totaling \$21,511 million in FY 1990, compared to \$22,494 million in FY 1989, a decrease of \$983 million or 4.4 percent. The \$21,511 million represents 96.4 percent of the \$22,319 million total prime contract awards over \$25,000 for RDT&E work in FY 1990.

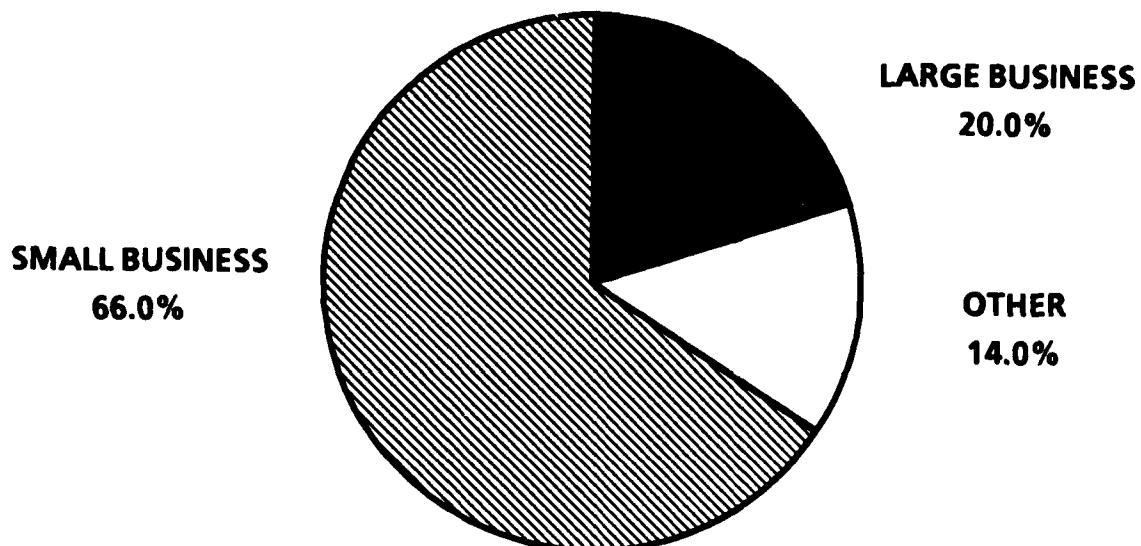
In addition to the top 500 contractors, there were 2,218 other contractors for whom RDT&E procurement actions over \$25,000 were reported, for a total of 2,718 contractors in FY 1990. In FY 1989, the total number of contractors was 2,573.

Of the 38 contractors with RDT&E awards of \$100 million or more in FY 1990, 34 were business firms and 4 were educational and other nonprofit institutions. These 38 contractors had a total of \$15,516 million in RDT&E awards. In FY 1989, there were 36 contractors who reached the \$100 million plateau, with awards totaling \$17,109 million. Of these 36 fiscal year 1989 contractors, 32 were business firms and 4 were educational and other nonprofit institutions. The amount of awards for this \$100 million group decreased by \$1,593 million or 9.3 percent between FY 1989 and 1990.

Breakout of the type of contractors receiving RDT&E awards are shown in the charts on the next page. Both of these charts show the number of firms with their associated percentages, and not the percentage of dollars.

## **TOTAL CONTRACTORS RECEIVING RDT&E DOLLARS**

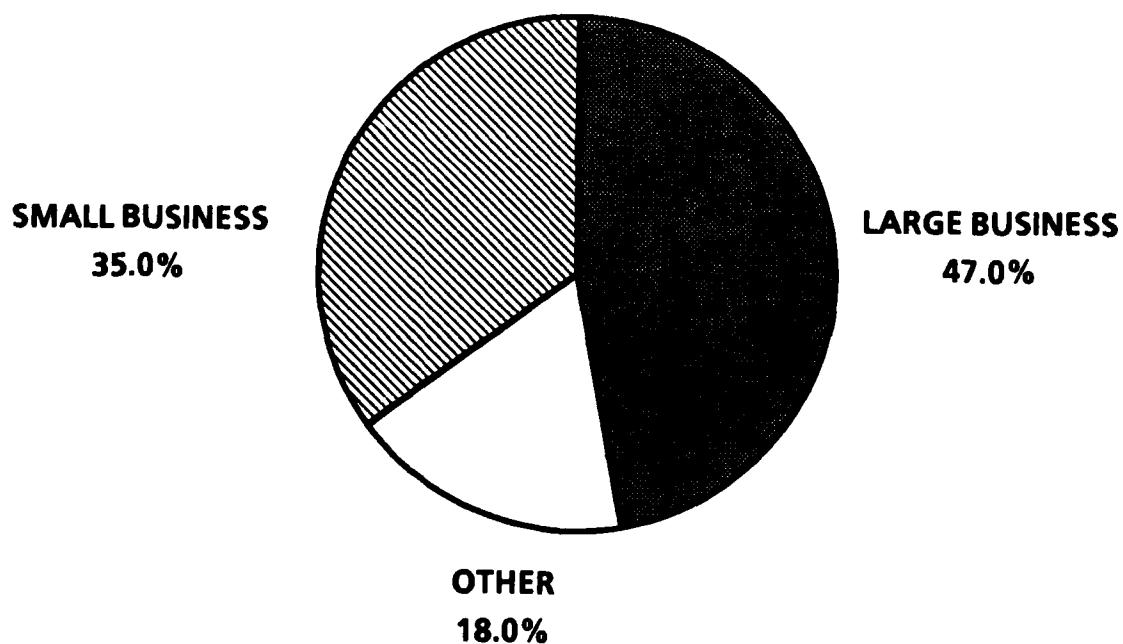
**Fiscal Year 1990**



**TOTAL NUMBER OF FIRMS = 2,718**

## **TOP 500 CONTRACTORS - RDT&E**

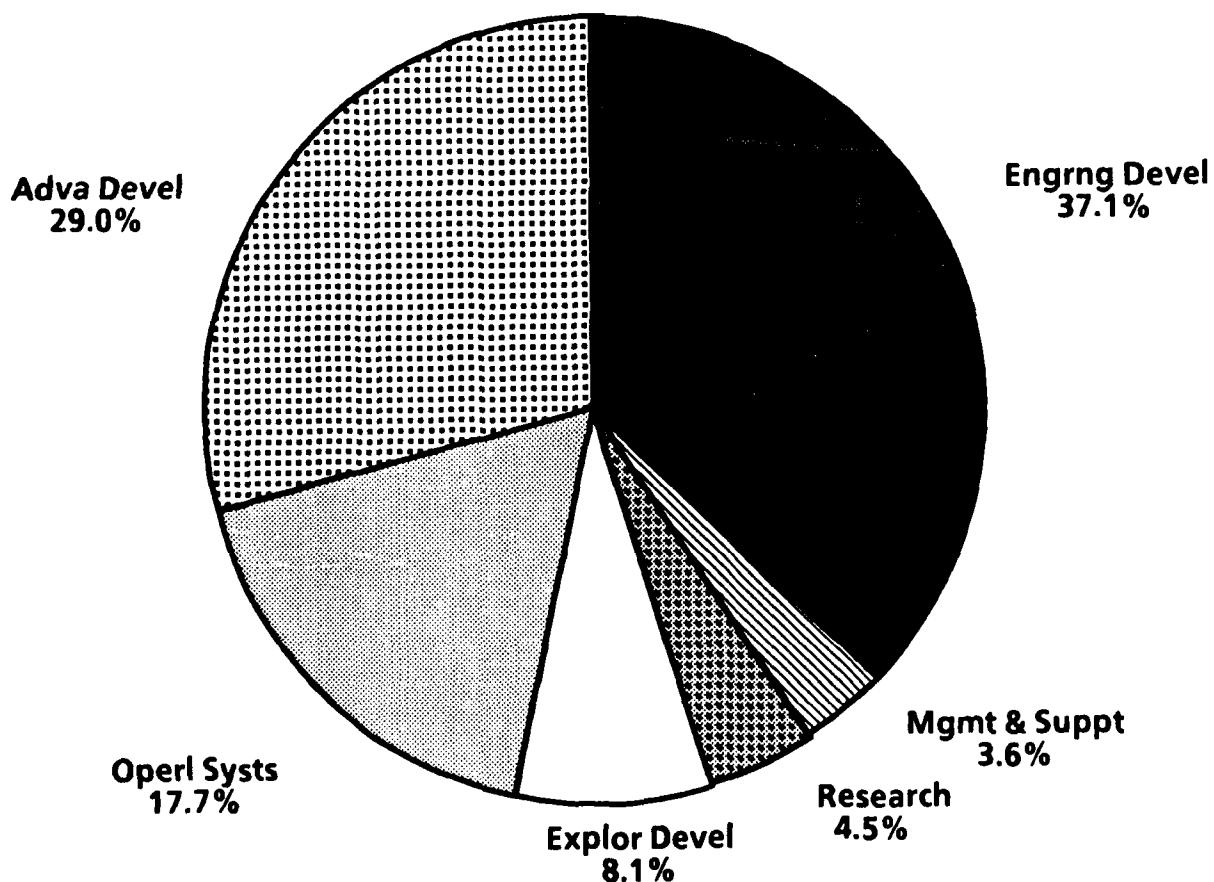
**Fiscal Year 1990**



The following table shows the type of RDT&E work the contractors were engaged in and the net value and percent distribution of all awards for each of these types in FY 1990. Engineering development accounted for the majority (37.1 percent) of RDT&E awards, followed by advanced development (29.0 percent).

TYPE	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E - TOTAL	<u>\$22,318,911</u>	<u>100.00</u>
Engineering Development	8,283,893	37.1
Advanced Development	6,462,145	29.0
Operational Systems	3,951,061	17.7
Exploratory Development	1,813,382	8.1
Research	993,809	4.5
Management and Support	814,621	3.6

**DOLLAR AWARDS BY TYPE OF RDT&E WORK**  
**Fiscal Year 1990**

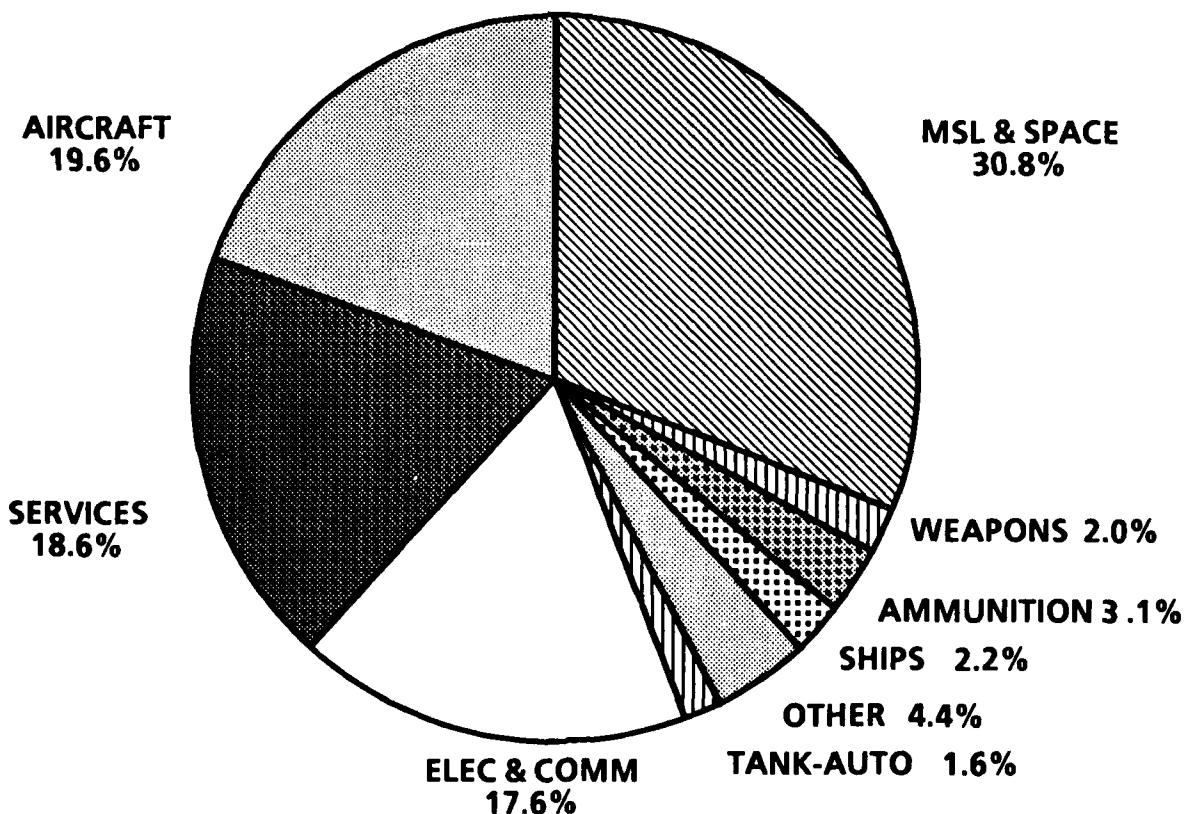


The last table shows the net value and percent distribution of all RDT&E awards by type of program. Within the RDT&E contracts, the largest volume of awards was for the research, development, test, or evaluation of missile & space systems and aircraft. In FY 1990, a combined total of \$11,229 million or 50.4 percent of all RDT&E awards over \$25,000 was for work connected with these programs.

PROGRAM	AWARDS (\$000)	PERCENT OF TOTAL
RDT&E - TOTAL	<u>\$22,318,911</u>	<u>100.00</u>
Missile & Space Systems	6,864,718	30.8
Aircraft	4,364,280	19.6
Electronics & Communication		
Equipment	3,924,875	17.6
Services	4,157,784	18.6
Ships	501,360	2.2
Ammunition	697,257	3.1
Weapons	449,875	2.0
Tank-Automotive	367,761	1.6
All Other	991,001	4.4

### RDT&E DOLLARS AWARDS BY TYPE OF PROGRAM

Fiscal Year 1990



**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1990**

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
124	B	A A I CORPORATION	219	B	AUTOMATED SCIENCES GROUP INC
156	B	ACUREX CORPORATION	346	B	AUTOMATION RES SYSTEMS LTD
449	B	ADVANCE SYSTEMS TECHNOLOGY	59	B	AVCO CORPORATION
188	B	ADVANCED DECISION SYSTEMS	130	B	AVCO RESEARCH LABORATORY INC
464	B	ADVANCED SCIENCES INC	382	B	B D SYSTEMS INC
380	B	ADVANCED TECHNOLOGY & RESEARCH	183	B	BABCOCK & WILCOX COMPANY THE
134	B	ADVANCED TECHNOLOGY INC	102	B	BALL CORPORATION
436	B	AEL INDUSTRIES INC	100	N	BATTELLE MEMORIAL INSTITUTE
447	B	AEPCO INC	52	B	BDM INTERNATIONAL INC
322	B	AERODYNE RESEARCH INC	259	B	BDM MANAGEMENT SERVICES CO
25	B	AEROJET	318	B	BECHTEL NATIONAL INC
193	B	AEROMET INC	376	B	BELL HELICOPTER TEXTRON INC
14	N	AEROSPACE CORPORATION	440	B	BELoit CORPORATION
241	B	ALLIANCE DEVELOPMENT CORP	343	B	BERKELEY RESEARCH ASSOCIATES
265	B	ALLIANCE TECHSYSTEMS INC	264	B	BICOASTAL CORPORATION
32	B	ALLIED SIGNAL AEROSPACE CO	21	B	BOEING AEROSPACE & ELECTRONICS
200	B	ALLIED SIGNAL INC	37	B	BOEING CO & SIKORSKY ACFT JV
457	B	ALPHATECH INC	17	B	BOEING COMPANY THE
311	B	AM GENERAL CORPORATION	29	B	BOEING COMPUTER SUPPORT SVCS
423	B	AMERICAN OPTICAL CORPORATION	39	B	BOLT BERANEK & NEUMAN INC
226	B	AMERICAN SYSTEMS CORPORATION	101	B	BOOZ ALLEN & HAMILTON INC
45	B	AMERICAN TELE & TELG COMPANY	375	N	BOSTON COLLEGE
468	B	AMOCO CHEMICAL COMPANY	298	N	BOSTON UNIVERSITY
402	B	ANALYSIS & COMPUTER SYSTEMS	419	N	BROWN UNIVERSITY
158	B	ANALYSIS & TECHNOLOGY INC	255	B	BRUNSWICK CORPORATION
58	B	ANALYTIC SCIENCE CORP THE	120	B	C A E INDUSTRIES LTD
84	N	ANALYTIC SERVICES INC	133	B	CADILLAC GAGE TEXTRON INC
295	B	ANALYTICAL SYSTEMS ENGRG CORP	305	N	CALIFORNIA INST OF TECHNOLOGY
214	B	ANALYTIX ELECTRONIC SYSTEMS	296	B	CALIFORNIA RES & TECHNOLOGY
252	B	ANDRULIS RESEARCH CORP	392	N	CALIFORNIA ST UNIV SAN DIEGO
360	B	APPLIED LEARNING INTERNATIONAL	43	B	CALSPAN CORPORATION
310	B	APPLIED MEASUREMENT SYSTEMS	157	F	CANADIAN COMMERCIAL CORP
383	B	APPLIED RESEARCH ASSOC INC	63	N	CARNEGIE MELLON UNIVERSITY
328	B	APPLIED RESEARCH INC	362	B	CARTWRIGHT ELECTRONICS INC
336	B	APPLIED TECHNOLOGY ASSOCIATES	199	B	CAS INC
273	B	APTEK INC	433	B	CASDE CORPORATION
454	B	AQUIDNECK SYSTEMS INTL	163	B	CBI NA CON INC
470	B	ARDAK CORPORATION	492	B	CENTURY COMPUTING INC
270	B	ARETE ASSOCIATES	137	B	CHAMBERLAIN MANUFACTURING CORP
142	B	ARINC RESEARCH CORPORATION	210	B	CLAMSHELL BUILDINGS INC
167	B	ARMORED VHCLC TCHNLOGIES ASSO	500	N	CLEMSON UNIVERSITY
320	B	ASI SYSTEMS INTERNATIONAL	168	B	COLEMAN RESEARCH CORPORATION
399	B	ASP CONSORTIUM	66	B	COLLINS INTERNATIONAL SVC CO
152	B	ASSURANCE TECHNOLOGY CORP	460	N	COLORADO STATE UNIVERSITY
141	B	ASTRO VALOUR INC	106	B	COLSA INC
34	B	AT&T TECHNOLOC'ES INC	289	N	COLUMBIA UNIVERSITY
446	B	ATLANTIC AEROSPACE ELECTRONICS	203	B	COMARCO INC
94	B	ATLANTIC RESEARCH CORPORATION	208	B	COMBUSTION ENGINEERING INC
390	F	ATM COMPUTER GMBH	201	B	COMPREHENSIVE TECHNOLOGIES INTL
452	N	AUBURN UNIVERSITY	445	B	COMPTEK RESEARCH INC

\* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1990**

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
53	B	COMPUTER SCIENCES CORPORATION	483	B	ELECTRONIC DECISIONS INC
115	B	CONTEL FEDERAL SYSTEMS INC	381	B	ELECTRONIC WARFARE ASSOCIATES
225	B	CONTRAVES GOERZ CORPORATION	108	B	ELECTROSPACE SYSTEMS INC
180	F	CONTROL DATA CANADA LTD	300	B	EMERSON ELECTRIC CO
76	B	CONTROL DATA CORPORATION	416	B	ENCORE COMPUTER CORPORATION
197	N	CORNELL UNIVERSITY	290	B	ENGINEERING & ECONOMICS RES
448	B	CORNING INC	268	B	ENSCO INC
420	B	CREARE INC	266	B	ENVIRONMENTAL TECHNOLOGIES GROUP
444	B	CROSS SYSTEMS INC	150	N	ENVIRONMENTAL RESEARCH INST OF MICH
344	B	CTA INCORPORATED	455	B	EPOCH ENGINEERING INC
131	B	CUMMINS ENGINE COMPANY INC	82	B	ESL INCORPORATED
394	B	DAMES & MOORE	345	B	EVALUATION RESEARCH CORP
465	B	DATA DESIGN LABORATORIES	466	B	FAAC INCORPORATED
348	B	DAVID SARNOFF RESEARCH CENTER	401	B	FABEL SYS CORP
321	B	DBA SYSTEMS INC	234	B	FAIRCHILD INDUSTRIES INC
429	B	DCS CORPORATION	458	B	FALCON ASSOCIATES
377	B	DECISION SCIENCE APPLICATIONS	386	B	FIBER MATERIALS INC
173	B	DEFENSE SYSTEMS INC	162	B	FIBERTEK INC
217	F	DEUTSCHE BUNDESPOST	54	B	FMC CORPORATION
355	B	DIGICOMP RESEARCH CORP	24	B	FORD AEROSPACE CORPORATION
277	B	DIGITAL EQUIPMENT CORPORATION	181	B	FOSTER MILLER INC
177	B	DIRECTED TECHNOLOGIES INC	27	B	FOUNDATION HEALTH CORPORATION
373	B	DOSS AVIATION INC	450	B	FRIED D L ASSOCIATES INC
62	N	DRAPER CHARLES STARK LAB INC	74	B	G & F COMPANY
428	B	DRAVO CORPORATION	31	B	G E C PLESSEY ELECTRONIC SYS
254	B	DU PONT E I DE NMOURS COMPANY	397	B	G T E SYLVANIA COM PRODUCTS
352	N	DUKE UNIVERSITY	50	B	GENCORP INC
463	B	DYNAMICS RESEARCH CORPORATION	400	B	GENERAL APPLIED SCIENCE
288	B	DYNCORP	185	B	GENERAL ATOMICS
478	B	DYNCORP APPLIED TECHNOLOGY	6	B	GENERAL DYNAMICS CORPORATION
144	B	DYNETICS INC	99	B	GENERAL DYNAMICS WESTINGHOUSE JV
323	B	E C CORPORATION OF OAK RIDGE	3	B	GENERAL ELECTRIC COMPANY
75	B	E SYSTEMS INC	253	N	GENERAL HOSPITAL CORPORATION
475	B	EAGLE PITCHER INDUSTRIES INC	379	B	GENERAL INSTRUMENT CORP DEL
263	B	EAGLE TECHNOLOGY INC	415	B	GENERAL MGT ASSOCIATES
267	B	EARTH TECHNOLOGY CORP USA	135	B	GENERAL MOTORS CORPORATION
496	B	EASTERN COMPUTERS INC	111	B	GENERAL RESEARCH CORPORATION
430	B	EASTMAN KODAK COMPANY	122	B	GEO CENTERS INC
128	B	EATON CORPORATION	488	B	GEODYNAMICS CORPORATION
293	B	EBASCO SERVICES INCORPORATED	194	N	GEORGIA INSTITUTE TECHNOLOGY
72	B	ECC INTERNATIONAL CORP	96	N	GEORGIA TECH RESEARCH CORP
182	B	ECONOMICS TECHNOLOGY ASSOC	16	B	GRUMMAN AEROSPACE CORPORATION
314	B	EDO CORPORATION	107	B	GRUMMAN DATA SYSTEMS CORP
434	B	EER SYSTEMS CORP	35	B	GTE GOVERNMENT SYSTEMS CORP
372	B	EG&G INC	396	B	GUILD ASSOCIATES INC
353	B	EG&G SPECIAL PROJECTS	92	B	HARRIS CORPORATION
240	B	EG&G WASHINGTON ANALYTICAL SVC	235	B	HARRIS MAGNAVOX SYSTEMS CO JV
410	B	ELECTRO DESIGN MANUFACTURING	441	B	HARRIS SEMICONDUCTOR
285	B	ELECTROMAGNETIC LAUNCH RES	49	B	HARSCO CORPORATION
388	B	ELECTRONIC ASSOCIATES INC	357	N	HARVARD UNIVERSITY

\* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1990**

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
125	B	HAZELTINE CORPORATION	358	B	LOCKHEED ENGINEERING & SCIENCE
44	B	HERCULES INCORPORATED	105	B	LOCKHEED SPACE OPERS CO
202	B	HILTON SYSTEMS INC	11	B	LOCKHEED TECHNICAL SERVICES CO
19	B	HONEYWELL INC	169	B	LOCUS INC
427	B	HORIZONS TECHNOLOGY INC	85	B	LOGICON INC
237	N	HUDSON INSTITUTE INC	359	B	LOGISTICS MANAGEMENT ENGRG
86	B	HUGHES AIRCRAFT & RAYTHEON JV	119	N	LOGISTICS MGT INSTITUTE
23	B	HUGHES AIRCRAFT COMPANY	41	B	LORAL CORPORATION
370	R	HUGHES ASSOCIATES INC	216	B	LOS ALAMOS TECHNICAL ASSOC INC
175	B	HUGHES TRAINING SYS INC	28	B	LTV AEROSPACE & DEF CO
291	B	HYDROACOUSTICS INC	147	B	M/A COM LINKABIT INC
481	B	HYPRES INC	261	B	MAC AULAY BROWN INC
55	N	I I T RESEARCH INSTITUTE	472	B	MADEN TECH CONSULTING INC
484	B	I NET INC	56	B	MAGNAVOX GOVT & INDSTRL ELCTR
469	B	INFORMATION SYSTEMS NTURKS CORP	198	B	MANTECH INTERNATIONAL CORP
315	B	INFOTEC DEVELOPMENT INC	256	B	MAR INCORPORATED
F	N	INSTITUTE FOR DEF ANALYSES	1	B	MARTIN MARIETTA CORPORATION
148	B	INTEGRATED SYSTEMS ANALYSTS	42	B	MARTIN MARIETTA DIEHL THORN JV
166	B	INTEL CORPORATION	47	B	MARTIN MARIETTA WESTINGHSE JV
467	B	INTERFEROMETRICS INC	207	B	MARVIN ENGINEERING CO INC
114	B	INTERMETRICS INC	12	N	MASSACHSETTS INST OF TECHNOLOGY
30	B	INTERNATIONAL BUS MCHS CORP	78	B	MAXWELL LABORATORIES INC
393	B	INTERNATIONAL SOFTWARE SYSTEMS	425	N	MAYO FOUNDATION
110	B	INTERSTATE ELECTRONICS CORP	38	B	MCDONNELL DGLS BELL HEL TEX JV
461	B	INTRASPACE CORPORATION	8	B	MCDONNELL DGLS GEN DYNAMCS JV
340	B	IRT CORPORATION	2	B	MCDONNELL DOUGLAS CORPORATION
51	F	ISRAEL AIRCRAFT INDUSTRIES LTD	48	B	MCDONNELL DOUGLAS HLCPTR CO
143	B	ITT & MARTIN MARIETTA JV	395	B	MCDONNELL DOUGLAS INC INC
69	B	ITT CORPORATION	61	B	MCDONNELL DOUGLAS TRNING SYS
231	B	JASON ASSOCIATES CORPORATION	334	B	MECHANICAL TECHNOLOGY INC
91	B	JAYCOR	331	N	MERCER UNIVERSITY
18	N	JOHNS HOPKINS UNIVERSITY	387	B	MESILLA VALLEY HIGH TECH IND
40	B	JOHNSON CONTROLS INC	222	F	MESSERSCHMITT BOELKOW BLOHM
129	B	KAMAN CORPORATION	474	B	METRICA INC
83	B	KAMAN SCIENCES CORPORATION	432	B	METRON INC
443	B	KDI PRECISION PRODUCTS INC	487	N	MICHIGAN TECHNLGICAL UNIVERSITY
116	B	KEARFOOT GUIDANCE NAVIG CORP	292	B	MICRION CORPORATION
371	B	KETRON INC	342	B	MICROCOM
368	B	KEYSTONE COMPUTER ASSOCIATES	301	B	MICROELECTRONICS
409	B	KNOWLEDGE SYSTEMS CONCEPTS	258	B	MILTOPE CORPORATION
341	B	KOLLMORGEN CORPORATION	179	B	MINNESOTA MIN & MFG COMPANY
384	B	KRUG INTERNATIONAL CORPORATION	93	B	MISSION RESEARCH CORPORATION
232	B	LAURENCE ASSOCIATES INC	15	N	MITRE CORPORATION
494	B	LEADING SYSTEMS INC	184	B	MODERN TECHNOLOGIES CORP
482	B	LEAR ASTRONICS CORP	81	B	MOTOROLA INC
70	B	LIGHT HELICOPTER TURBINE ENG	459	B	MULTI ELECTRIC MFG INC
178	B	LITTLE ANHUR D INC	257	B	N K F ENGINEERING INC
22	B	LITTON SYSTEMS INC	212	N	NATIONAL ACADEMY SCIENCES USA
7	B	LOCKHEED CORPORATION	404	B	NATIONS INC
165	B	LOCKHEED ELECTRONICS CO	242	N	NEW MEXICO STATE OF

\* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1990**

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
155	N	NEW MEXICO STATE UNIVERSITY	413	B	RDR INC
112	B	NEWPORT NEWS SHPBLDING DRYDOCK	351	B	REMINGTON ARMS COMPANY INC
64	B	NICHOLS RESEARCH CORPORATION	354	N	RENSSELAER POLYTECHNIC INST
456	B	NORDEN SYSTEMS INC	282	B	RESEARCH ANALYSIS & MAINT
303	N	NORTH CAROLINA STATE UNIV	260	N	RESEARCH TRIANGLE INSTITUTE
13	B	NORTHROP CORPORATION	245	B	RGI INC
498	N	NYSERNET INC	205	N	RIVERSIDE RESEARCH INSTITUTE
417	B	ODETICS INC	10	B	ROCKWELL INTERNATIONAL CORP
424	B	ODYSSEY RESEARCH ASSOCIATES	319	B	ROCKWELL POWER SYSTEMS
374	N	OKLAHOMA STATE UNIVERSITY	204	B	ROHM & HAAS COMPANY
121	B	OLIN CORPORATION	272	N	RUTGERS THE STATE UNIVERSITY
414	B	OPTIC ELECTRONIC CORP	161	B	S F A INC
473	B	OPTIMETRICS INC	246	B	S SYSTEMS CORPORATION
154	B	ORINCON CORPORATION	251	N	SALK INST FOR BLGICAL STUDIES
406	B	ORION INTL TECHNOLOGIES	118	B	SANDERS & AEL JV
490	B	ORION RESEARCH INCORPORATED	104	B	SANDERS ASSOC GEN ELECTRIC JV
317	B	ORLANDO TECHNOLOGY INC	239	B	SANDERS ASSOCIATES INTERNATINL
87	B	OSHKOSH TRUCK CORPORATION	90	B	SCHAFFER W J ASSOCIATES INC
218	B	PACER SYSTEMS INC	361	B	SCHWARTZ ELECTRO OPTICS INC
229	B	PACIFIC SIERRA RESEARCH CORP	365	B	SCIENCE & ENGINEERING ASSOC
140	B	PAR TECHNOLOGY CORPORATION	192	B	SCIENCE & TECHNOLOGY CORP
493	B	PARKER KINETIC DESIGN INC	26	B	SCIENCE APPLICATIONS INTL CORP
238	B	PARSONS RALPH M COMPANY THE	287	B	SCIENCE RESEARCH LABORATORY
57	N	PENNSYLVANIA STATE UNIV	228	B	SEMCOR INC
145	B	PERCEPTRONICS INC	437	B	SIERRA NEVADA CORPORATION
146	B	PERKIN ELMER CORPORATION	485	B	SIMULATION TECHNOLOGIES INC
280	B	PHOTON RESEARCH ASSOCIATES	326	B	SIPPICAN INC
442	B	PHYSICAL OPTICS CORPORATION	189	B	SMITHS INDUSTRIES INC USA
294	B	PHYSICAL RESEARCH INC	164	B	SOFTECH INC
471	B	PHYSICAL SCIENCES INC	313	B	SOFTWARE TECHNOLOGY INC
153	B	PHYSICS INTERNATIONAL COMPANY	195	B	SONALYSTS INC
499	B	PLANNING CONSULTANTS INC	286	N	SOUTHEASTIN CTR ELECTR ENG ED
127	B	PLANNING RESEARCH CORPORATION	307	N	SOUTHERN METHODIST UNIVERSITY
206	B	PLANNING SYSTEMS INCORPORATED	333	N	SOUTHERN RESEARCH INSTITUTE
337	B	POWER SPECTRA INC	324	B	SOUTHERN RESEARCH TECHNOLOGIES
421	B	PRESEARCH INCORPORATED	243	N	SOUTHWEST RESEARCH INSTITUTE
316	N	PRINCETON UNIVERSITY	176	B	SPACE APPLICATIONS CORPORATION
304	B	PULSE SCIENCES INC	98	B	SPACE DATA CORPORATION
476	N	PURDUE UNIVERSITY	103	B	SPARTA INC
489	B	QUALCOMM INC	160	B	SPARION CORPORATION
279	B	QUEST RESEARCH CORPORATION	276	B	SPECTRA DIODE LABORATORIES
223	B	QUESTECH INC	338	B	SPIRE CORPORATION
88	B	R & D ASSOCIATES	80	N	SRI INTERNATIONAL
149	B	R J O ENTERPRISES INC	190	B	SRS TECHNOLOGIES
491	B	RADIX SYSTEMS INC	486	B	STANFORD TELECOMMUNICATIONS
350	B	RAIL COMPANY	109	N	STANFORD UNIVERSITY
67	F	RAM SYS GMBH	367	N	STATE UNIVERSITY OF NEW YORK
46	N	RAND CORPORATION	479	B	STATISTICA INC
5	B	RAYTHEON COMPANY	170	B	STERIMATICS CORPORATION
209	B	RAYTHEON SERVICE COMPANY	174	B	STERLING FEDERAL SYSTEMS INC

\* B = Business Firm

F = Foreign Contractor

N = Nonprofit Institution

**Table 1. Alphabetical Listing of the Top 500 DOD Prime Contractors for Research, Development, Test, and Evaluation Work: FY 1990**

RANK	*	CONTRACTOR	RANK	*	CONTRACTOR
477	B	STEWART & STEVENSON SVCS INC	297	N	UNITED STATES DEPT OF COMMERCE
123	B	STRATEGIC ANALYSIS INC	20	B	UNITED TECHNOLOGIES CORP
329	B	SUMARIA SYSTEMS INC	136	B	UNIVERSAL ENERGY SYSTEMS INC
451	B	SUMMA TECHNOLOGY INC	262	B	UNIVERSAL TECHNOLOGY CORP
215	B	SUNDSTRAND CORPORATION	220	N	UNIVERSITY OF ALABAMA
438	B	SUPERCONDUCTOR TECHNOLOGIES	281	N	UNIVERSITY OF ARIZONA
65	B	SVERDRUP TECHNOLOGY INC	77	N	UNIVERSITY OF CALIFORNIA
236	B	SYNDETIX INC	398	N	UNIVERSITY OF CENTRAL FLORIDA
330	B	SYNETICS CORPORATION	411	N	UNIVERSITY OF COLORADO
385	N	SYRACUSE UNIVERSITY	113	N	UNIVERSITY OF DAYTON
95	B	SYSCON CORPORATION	349	N	UNIVERSITY OF FLORIDA
332	B	SYSTEM DEVELOPMENT CORPORATION	172	N	UNIVERSITY OF ILLINOIS
274	B	SYSTEM DYNAMICS INTERNATIONAL	302	N	UNIVERSITY OF LOVELL
138	B	SYSTEM PLANNING CORPORATION	191	N	UNIVERSITY OF MARYLAND
356	B	SYSTEM RESOURCES CORPORATION	308	N	UNIVERSITY OF MASSACHUSETTS
403	B	SYSTEMS & ELECTRONICS INC	248	N	UNIVERSITY OF MICHIGAN
422	B	SYSTEMS & LOGISTICS CORP	221	N	UNIVERSITY OF MINNESOTA
249	B	SYSTEMS ENGRG & MGT ASSOC	230	N	UNIVERSITY OF PENNSYLVANIA
196	B	SYSTEMS EXPLORATION INC	186	N	UNIVERSITY OF PITTSBURGH
283	B	SYSTEMS PLANNING & ANALYSIS	327	N	UNIVERSITY OF ROCHESTER
412	B	SYSTEMS RES APPLICATIONS CORP	89	N	UNIVERSITY OF STHERN CLFORNIA
151	B	SYSTEMS RESEARCH LABORATORIES	71	N	UNIVERSITY OF TEXAS SYSTEM
171	F	TADIRAN ELECTRONIC INDUSTRIES	378	N	UNIVERSITY OF UTAH
453	B	TECHNICAL & MGT SVCS CORP	364	N	UNIVERSITY OF VIRGINIA
431	B	TECHNOLOGY DEVELOPMENT CORP	97	N	UNIVERSITY OF WASHINGTON
299	B	TECOLOTE RESEARCH INC	347	N	UNIVERSITY OF WISCONSIN SYSTEM
426	B	TELECOMMUNICATION SCIENCE ASSOC	439	N	UNIVERSITY RESEARCH FOUNDATION
36	B	TELEDYNE INDUSTRIES INC	480	B	USER TECHNOLOGY ASSOCIATES
244	B	TELEPHONICS CORPORATION	73	N	UTAH STATE UNIVERSITY
407	B	TETRA TECH INC	405	N	VANDERBILT UNIVERSITY THE
33	B	TEXAS INSTRUMENTS INCORPORATED	306	B	VARIAN ASSOCIATES INC
335	B	TEXAS INSTRUMENTS WESTINGHSE JV	269	B	VECTOR RESEARCH COMPANY INC
495	B	TEXTRON INC	227	B	VEDA INCORPORATED
366	B	TERMO ELECTRON TECH CORP	325	B	VEDA INTERNATIONAL INC
278	B	THINKING MACHINES CORPORATION	363	N	VIRGINIA PLYTCHNIC INST ST UNI
126	B	THIOKOL CORPORATION	139	B	VITRO CORPORATION
68	B	TI & MARTIN AAUS M JV	187	B	VIRONICS INC
224	B	TIBURON SYSTEMS INC	275	B	VSE CORPORATION
339	B	TITAN SYSTEMS INC	418	B	WAGNER DANIEL H ASSOCIATES
391	B	TRACOR AEROSPACE INC	312	B	WALLACE & CO
132	B	TRACOR APPLIED SCIENCES INC	435	B	WEIDLINGER ASSOCIATES INC
497	B	TREMETRICS INC	233	B	WESTERN INSTRUMENT CORPORATION
117	N	TRIDENT TECHNICAL COLLEGE	309	B	WESTERN RESEARCH CORPORATION
462	B	TRUAX ENGINEERING	4	B	WESTINGHOUSE ELECTRIC CORP
408	B	TRUSTED INFORMATION SYSTEMS	369	B	WILLIAMS INTERNATIONAL CORP
9	B	TRW INC	213	N	WOODS HOLE OCNGRAPHIC INSTUTE
247	B	UNION CORPORATION	389	B	WYLE LABORATORIES
79	B	UNISYS CORPORATION	211	B	XEROX CORPORATION
250	B	UNITED INTERNATIONAL ENGRG	284	B	XONTECH INC
159	F	UNITED KINGDOM MINISTRY OF DEF	271	B	ZYCAD CORPORATION

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**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
1	MARTIN MARIETTA CORPORATION Sacramento California Vandenberg AFB California Denver Colorado Englewood Colorado Littleton Colorado Waterton Colorado Washington D.C. Ft Walton Bech Florida Orlando Florida Baltimore Maryland Bethesda Maryland Glen Burnie Maryland Middle River Maryland Bellevue Nebraska Albuquerque New Mexico Kirtland AFB New Mexico Rome New York Fairfax Virginia GERMANY F	2,014,877 * 3,555 1,772- 1,870,135 154 20,914 700 105 78 103,780 9,079 3,938 2,743 262 199 100- 758 170 122 57	5	WESTINGHOUSE ELECTRIC CORP Melville New York Cleveland Ohio Philadelphia Penn Pittsburgh Penn West Mifflin Penn RAYTHEON COMPANY Goleta California Oxnard California Cockeysville Maryland Andover Mass Attleboro Mass Bedford Mass Boston Mass Lexington Mass Lowell Mass Marlborough Mass Norwood Mass Quincy Mass Sudbury Mass Tewksbury Mass Waltham Mass Wayland Mass West Andover Mass Westwood Mass Melville New York Waterville New York Portsmouth Rhode Isld Bristol Tennessee	226 119,494 65 8,024 254,490 661,934 * 7,690 109 99 28,323 1,040 161,014 200 2,155 584 151,683 708 368 114,055 2,455 1,458 178,122 6,917 108 642 907 3,067 230
2	MCDONNELL DOUGLAS CORPORATION Huntsville Alabama Mesa Arizona Huntington Bch California Long Beach California San Bernardino California Vandenberg AFB California Amity Colorado Tampa Florida Wichita Kansas St Louis Missouri San Antonio Texas ISRAEL	1,553,975 * 430 1,752 222,193 953,693 3,900 186 35,953 1,163 1,585 332,706 265 149	6	GENERAL DYNAMICS CORPORATION Camden Arkansas Ontario California Pomona California Rancho Cucamonga California San Diego California Groton Conn Sterling Hghts Michigan Warren Michigan St Louis Missouri Newport Rhode Isld Fort Worth Texas Harlingen Texas Arlington Virginia	609,308 * 3,850 78,542 13,682 955 127,208 52,895 193,872 2,216 1,882 510 130,563 1,179 1,954
3	GENERAL ELECTRIC COMPANY Huntsville Alabama Williams AFB Arizona San Diego California Dayton Beach Florida Melbourne Florida Mount Carmel Maryland Burlington Mass Fitchburg Mass Lynn Mass Pittsfield Mass Camden New Jersey Chelsea New Jersey Cherry Hill New Jersey Moorestown Len New Jersey Princeton New Jersey White Sands Ms New Mexico Cheektowaga New York Hauppauge New York New York New York Schenectady New York Syracuse New York Utica New York Cincinnati Ohio King of Prussia Penn Philadelphia Penn Warrinster Penn Burlington Vermont Wallop Flight Virginia Yona Marshall I	818,211 * 45,659 4,870 1,200 593- 416 3,950 2,462 14,150 34,640 4,470 20,391 54 118 33,924 38,887 230 78- 47 152 110,421 48,076 90,253 234,057 4,112 91,665 1,441 6,444 900 25,893	7	LOCKHEED CORPORATION Burbank California Palmdale California Saugus Bouquet California Marietta Georgia Manchester N.H. Merrimack N.H. Nashua N.H.	582,655 * 389,753 153,554 3,408 21,231 5,824 59 8,826
4	WESTINGHOUSE ELECTRIC CORP San Diego California Sunnyvale California Washington D.C. Annapolis Maryland Baltimore Maryland Linthicum Maryland Mondawmin Shop Maryland Silver Spring Maryland	687,525 * 432 179,391 60 154 121,879 3,030 54 226	8	MCDONNELL DGLS GEN DYNAMCS JV St Louis Missouri	555,000 * 555,000
			9	TRW INC Huntsville Alabama Los Angeles California Redondo Beach California San Bernardino California San Diego California Colorado Sprng Colorado New London Conn Cape Canaveral Florida Albuquerque New Mexico Beavercreek Ohio Dayton Ohio Wright Patters Ohio Arlington Virginia Fairfax Virginia	534,443 * 8,851 347 276,303 168,747 16,793 21,931 669 666- 184 6,167 24,833 400 1,249 8,635

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Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
10	ROCKWELL INTERNATIONAL CORP Anaheim California Downey California Los Angeles California Newport Beach California San Bernardino California Santa Barbara California Seal Beach California Thousand Oaks California Colorado Sprng Colorado Duluth Georgia Cedar Rapids Iowa Albuquerque New Mexico Kirtland AFB New Mexico Tulsa Oklahoma Warminster Penn Richardson Texas	522,489 * 71,826 49,055 189,638 1,500 157,961 907 22,186 10,543 1,100 10,550 34 4,025 815 1,465 365 519	20	UNITED TECHNOLOGIES CORP San Diego California San Jose California Sunnyvale California East Hartford Conn East Hartland Conn Stratford Conn Windsor Locks Conn Flora Florida West Palm Bech Florida Dayton Ohio	333,237 * 685 4,321 161 11,361 128 22,421 1,989 280 291,186 705
11	LOCKHEED TECHNICAL SERVICES CO Huntsville Alabama Palo Alto California Sunnyvale California Mercury Nevada Albuquerque New Mexico Austin Texas	490,640 * 1,566 17,807 462,108 1,100 3,206 4,753	21	BOEING AEROSPACE & ELECTRONICS Huntsville Alabama Kent Washington Seattle Washington	319,189 * 38,421 42,445 238,323
13	NORTHROP CORPORATION Hawthorne California Palmdale California Palos Verdes P California Pico Rivera California Rolling Hills California Thousand Oaks California Rantoul Illinois Rolling Meadow Illinois	424,574 * 16,160 380,744 105 1,251 1,926 3,670 45 20,673	22	LITTON SYSTEMS INC Tempe Arizona Los Angeles California San Carlos California San Jose California Sunnyvale California Woodland California Colorado Sprng Colorado South Windsor Conn Apopka Florida Orlando Florida Atlanta Georgia Davenport Iowa Lexington Mass Morris Plains New Jersey Melville New York Williamsport Penn Houston Texas Salt Lake City Utah	281,294 * 65 61,529 99 665 8,053 2,795 203,524 27 113 422 100 351 2,704 290 449 109 90 91-
16	GRUMMAN AEROSPACE CORPORATION Edwards AFB California Melbourne Florida Bethpage New York Great River New York	394,718 * 1,163 79 389,591 3,885	23	HUGHES AIRCRAFT COMPANY Huntsville Alabama Tucson Arizona Buena Park California Carlsbad California El Segundo California Fullerton California Goleta California Long Beach California Los Angeles California Malibu California Newport Beach California San Diego California Torrance California West Covina California Minneapolis Minnesota Albuquerque New Mexico Middletown Rhode Isld	254,776 * 13,200 978 2,582 1,396 64,344 27,366 31,370 6,455 76,487 5,455 1,550 3,500 2,702 609 2,744 13,405 633
17	BOEING COMPANY THE Huntsville Alabama Los Angeles California Wichita Kansas Philadelphia Penn Houston Texas Kent Washington Seattle Washington	376,942 * 62,096 233 3,377 1,034 36 12,912 297,254	24	FORD AEROSPACE CORPORATION El Monte California Newport Beach California Palo Alto California San Jose California Colorado Sprng Colorado Leavenworth Kansas	223,314 * 333 36,158 1,117 85,964 91,370 8,372
19	HONEYWELL INC Glendale Arizona Phoenix Arizona San Diego California Clearwater Florida St Petersburg Florida Bloomington Minnesota Brooklyn Park Minnesota Edina Minnesota Golden Valley Minnesota Hopkins Minnesota Minneapolis Minnesota Minnetonka Minnesota New Brighton Minnesota New Hope Minnesota Plymouth Minnesota Albuquerque New Mexico Horsham Penn Arlington Virginia Everett Washington	344,483 * 1,954 1,269 3,907 24,108 7,110 4,507 6,633 5,577 75 185,594 20,999 69,525 172 113 5,070 6,120 812 532 406	25	AEROJET Azusa California Downey California Nimbus California Sacramento California Jonesboro Tennessee	212,645 * 139,557 33,712 903 38,403 70

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for RDT&E to Business Firms: FY 1990**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
26	SCIENCE APPLICATIONS INT'L CORP		181,237 *	33	TEXAS INSTRUMENTS INCORPORATED		111,078 *
	Huntsville	Alabama	3,997		Colorado Sprng	Colorado	21,574
	Tucson	Arizona	2,452		Dallas	Texas	67,812
	Hermosa Beach	California	1,988		Lewisville	Texas	19,186
	Los Angeles	California	80		McKinney	Texas	289-
	Placentia	California	1,639		Plano	Texas	2,795
	San Diego	California	84,850	34	AT&T TECHNOLOGIES INC		107,173 *
	Santa Ana	California	329		Norcross	Georgia	145
	Santa Clara	California	377		Lincoln	Nebraska	35
	Santa Monica	California	100		Eatontown	New Jersey	243
	Torrance	California	6,201		Hopewell	New Jersey	202
	Englewood	Colorado	96		New Providence	New Jersey	1,161
	Washington	D.C.	1,716		Whippany	New Jersey	5,937
	Clearwater	Florida	929		Greensboro	N Carolina	92,497
	Orlando	Florida	91		McLeansville	N Carolina	184
	Honolulu	Hawaii	649		Allentown	Beth Penn	2,521
	Stow	Mass	51		Reading	Penn	4,248
	Las Vegas	Nevada	56	35	GTE GOVERNMENT SYSTEMS CORP		105,184 *
	Albuquerque	New Mexico	7,934		Mountain View	California	5,428
	Dayton	Ohio	6,458		San Diego	California	54-
	Wright Patters	Ohio	1,051		Colorado Sprng	Colorado	26
	Ft Washington	Penn	579		Rockville	Maryland	554
	Wayne	Penn	33		Billerica	Mass	10,286
	Alexandria	Virginia	2,620		Needham	Mass	45,594
	Arlington	Virginia	2,962		Waltham	Mass	150
	Falls Church	Virginia	4,635		Westborough	Mass	27,197
	McLean	Virginia	46,058		Yona	Marshall I	16,003
	Reston	Virginia	139	36	TELEDYNE INDUSTRIES INC		104,283 *
	Vienna	Virginia	3,167		Huntsville	Alabama	72,151
27	FOUNDATION HEALTH CORPORATION		165,140 *		Mobile	Alabama	118
	Sacramento	California	165,140		Palo Alto	California	50
28	LTV AEROSPACE & DEF CO		163,678 *		San Diego	California	20,219
	Billerica	Mass	112		Santa Clara	California	4,061
	Buffalo	New York	1,490		Torrance	California	120
	Dallas	Texas	134,299		Lutherville	Maryland	48
	Grand Prairie	Texas	27,777		Muskegon	Michigan	3,805
29	BOEING COMPUTER SUPPORT SVCS		153,647 *		Toledo	Ohio	2,938
	Renton	Washington	150		Garland	Texas	65
	Seattle	Washington	153,497		Alexandria	Virginia	708
30	INTERNATIONAL BUS MCHS CORP		128,415 *	37	BOEING CO & SIKORSKY ACFT JV		103,874 *
	San Jose	California	577		Philadelphia	Penn	103,874
	Boulder	Colorado	26,855	38	MCDONNELL DGLS BELL HEL TEX JV		103,568 *
	Washington	D.C.	5,013		Mesa	Arizona	103,568
	Eglin AFB	Florida	829	39	BOLT BERANEK & NEUMAN INC		95,663 *
	Honolulu	Hawaii	87		Los Angeles	California	907
	Gaithersburg	Maryland	9,164		San Diego	California	268
	Nutley	New Jersey	257		New London	Conn	234
	Owego	New York	18,782		Cambridge	Mass	94,254
	Yorktown Heigh	New York	1,053	40	JOHNSON CONTROLS INC		94,068 *
	Manassas	Virginia	65,818		Mercury	Nevada	524
					Yona	Marshall I	93,544
31	G E C PLESSEY ELECTRONIC SVS		123,523 *	41	LORAL CORPORATION		90,087 *
	Little Falls	New Jersey	118,742		Litchfield Par	Arizona	5,097
	Wayne	New Jersey	4,781		City of Indust	California	81
32	ALLIED SIGNAL AEROSPACE CO		116,482 *		Menlo Park	California	88
	Phoenix	Arizona	6,679		Milpitas	California	2,352
	Tempe	Arizona	365		Pasadena	California	5,253
	Los Angeles	California	1,040		Pomona	California	1,516
	Torrance	California	9,704		Sarasota	Florida	58
	Washington	D.C.	652		Lexington	Mass	30,800
	South Bend	Indiana	114		Wilmington	Mass	135
	Baltimore	Maryland	49,418		New York	New York	9,916
	Cloverlea	Maryland	576		Syosset	New York	15,964
	Columbia	Maryland	40,561		Akron	Ohio	13,159
	Landover	Maryland	80		Archbald	Penn	5,668
	St Inigoes	Maryland	2,383				
	Towson	Maryland	2,200				
	Mercury	Nevada	2,710				

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**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
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Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
42	MARTIN MARIETTA DIEHL THORN JV Orlando Florida	89,415 *		COMPUTER SCIENCES CORPORATION Warminster Penn	187
		89,415		Dahlgren Virginia	7,470
43	CALSPAN CORPORATION Tucson Arizona	88,716 *		Falls Church Virginia	7,625
	Los Angeles California	134	54	EMC CORPORATION Anniston Alabama	64,648 *
	Palo Alto California	77		San Jose California	1,052
	Pasadena California	55		Santa Clara California	35,324
	Redondo Beach California	90		Minneapolis Minnesota	18,482
	Melbourne Florida	53		Great Neck New York	9,876
	Potomac Maryland	50			86-
	Bedford Mass	75	56	MAGNAVOX GOVT & INDSTR ELCTR Torrance California	61,762 *
	Bourne Mass	45		Fort Wayne Indiana	718
	Lexington Mass	60		Mahwah New Jersey	59,630
	Princeton New Jersey	100		Ashburn Virginia	1,339
	Buffalo New York	26,001			75
	Ithaca New York	80	58	ANALYTIC SCIENCE CORP THE Ft Walton Bech Florida	61,068 *
	Dayton Ohio	100		Patrick AFB Florida	4,943
	Rochester New York	171		Reading Mass	1,999
	Springville New York	26		Fairborn Ohio	47,768
	Syracuse New York	47			6,358
	Utica New York	31	59	AVCO CORPORATION Petaluma California	60,096 *
	Norristown Penn	118		Stratford Conn	1,470
	Philadelphia Penn	70		Ft Walton Bch Florida	11,859
	Arnold AFS Tennessee	117		Athens Louisiana	129
	Reston Virginia	61,116		Lowell Mass	36-
		100		Wilmington Mass	942
44					44,632
	HERCULES INCORPORATED Clearwater Florida	82,090 *			UNITED KIN
	Cumberland Maryland	7,894			1,100
	Succasunna Ken New Jersey	9,215	61	MCDONNELL DOUGLAS TRNING SYS Norman Oklahoma	59,866 *
	Magna Utah	50			59,866
	Rocket Center W Virginia	37,851	64	NICHOLS RESEARCH CORPORATION S	56,656 *
		27,080		Huntsville Alabama	53,744
45	AMERICAN TELE & TELG COMPANY New Providence New Jersey	80,648 *		Hustlerville Alabama	1,495
	Albuquerque New Mexico	200		Albuquerque New Mexico	31
	Greensboro N Carolina	100		White Sands Me New Mexico	887
		80,348		Dayton Ohio	499
47	MARTIN MARIETTA WESTINGHSE JV Orlando Florida	72,430 *	65	SVERDRUP TECHNOLOGY INC Wright Patters Ohio	55,609 *
		72,430		Arnold AFS Tennessee	2,118
48	MCDONNELL DOUGLAS HLCPTR CO Mesa Arizona	70,979 *		Tullahoma Tennessee	52,510
		70,979	66	COLLINS INTERNATIONAL SVC CO Cedar Rapids Iowa	52,841 *
49	HARSCO CORPORATION Yoe Penn	70,462 *		Richardson Texas	37,132
	York Penn	125			15,709
		70,337	68	TI & MARTIN AAWS M JV Denton Texas	981
50	GENCORP INC Sacramento California	70,087 *			49,506 *
	Ft Walton Bch Florida	69,788			49,506
		299	69	ITT CORPORATION Los Angeles California	49,156 *
52	BDM INTERNATIONAL INC Huntsville Alabama	68,769 *		Fort Wayne Indiana	506
	Monterey California	12,960		Clifton New Jersey	12,459
	Redlands California	240		Nutley New Jersey	828
	Eglin AFB Florida	325		Wright Patters Ohio	34,120
	Tyndall AFB Florida	1,836		Easton Penn	687
	Columbia Maryland	266		KOREA REP	318
	Albuquerque New Mexico	123			238
	Kirtland AFB New Mexico	10,159	70	LIGHT HELICOPTER TURBINE ENG St Louis Missouri	49,122 *
	Arlington Virginia	1,295			49,122
	McLean Virginia	540	72	ECC INTERNATIONAL CORP S	47,446 *
	Norfolk Virginia	40,243		Orlando Florida	47,446
		782			
53	COMPUTER SCIENCES CORPORATION Huntsville Alabama	65,455 *			
	Camarillo California	6,665			
	San Diego California	9,579			
	Ft Walton Bech Florida	7,681			
	Moorestown Len New Jersey	2,158			
	Oceanport New Jersey	15,366			
	Albuquerque New Mexico	274			
	East Norriton Penn	7,850			
		600			

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Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
74	G & F COMPANY		43,267 *	90	SCHAFER W J ASSOCIATES INC		30,700 *
	Santa Clara	California	43,267		Huntsville	Alabama	356
75	E SYSTEMS INC		41,542 *		Chelmsford	Mass	27,839
	St Petersburg	Florida	30,441		Wakefield	Mass	345
	Dallas	Texas	2,605		Arlington	Virginia	2,160
	Garland	Texas	200	91	JAYCOR		30,214 *
	Greenville	Texas	7,916		San Diego	California	24,162
	Salt Lake City	Utah	177		Washington	D.C.	255
	Vienna	Virginia	203		Edgewood Arsen	Maryland	74
76	CONTROL DATA CORPORATION		41,520 *		Vicksburg	Miss	55
	Bethesda	Maryland	89		Fairborn	Ohio	3,164
	Minneapolis	Minnesota	41,467		Vienna	Virginia	2,504
	Yona	Marshall I	36-	92	HARRIS CORPORATION		29,978 *
78	MAXWELL LABORATORIES INC		38,964 *		Melbourne	Florida	18,594
	Placentia	California	47		Orlando	Florida	2,478
	San Diego	California	38,163		Palm Bay	Florida	3,648
	Albuquerque	New Mexico	586		Omaha	Nebraska	1,751
	Alexandria	Virginia	168		Rochester	New York	2,007
79	UNISYS CORPORATION		37,215 *		Syosset	New York	1,500
	Glendale	Arizona	64	93	MISSION RESEARCH CORPORATION	S	28,847 *
	San Diego	California	2,184		Santa Barbara	California	20,665
	Clearwater	Florida	2,993		Washington	D.C.	252
	St Paul	Minnesota	19,516		Nashua	N.H.	2,459
	Eatontown	New Jersey	1,083		Albuquerque	New Mexico	5,102
	Great Neck	New York	1,654-		Los Alamos	New Mexico	91
	Dayton	Ohio	831		Dayton	Ohio	141
	Trevose	Penn	1,416		Newington	Virginia	137
	Salt Lake City	Utah	2,217	94	ATLANTIC RESEARCH CORPORATION		28,185 *
	Dahlgren	Virginia	1,371		Camden	Arkansas	918
	McLean	Virginia	1,298		Los Angeles	California	638
	Reston	Virginia	5,956		Menlo Park	California	950
81	MOTOROLA INC		36,497 *		Rockville	Maryland	5,510
	Scottsdale	Arizona	36,497		Severna Park	Maryland	1,115
82	ESL INCORPORATED		35,697 *		Shrewsbury	New Jersey	2,963
	Sunnyvale	California	35,697		Rome	New York	2,066
83	KAMAN SCIENCES CORPORATION		34,910 *		Syracuse	New York	392
	Huntsville	Alabama	2,930		Dayton	Ohio	510
	Santa Barbara	California	4,305		Fairborn	Ohio	845
	Colorado Sprng	Colorado	23,332		Philadelphia	Penn	1,263
	Burlington	Mass	337		Wilmington	Penn	30
	Albuquerque	New Mexico	2,133		Alexandria	Virginia	624
	Utica	New York	1,873		Frederickburg	Virginia	3,697
85	LOGICON INC		31,799 *		Gainesville	Virginia	6,664
	Los Angeles	California	20,175	95	SYSCON CORPORATION		27,911 *
	San Diego	California	1,503		San Diego	California	4,041
	San Pedro Hill	California	873		New London	Conn	699
	Wright Patters	Ohio	9,248		Washington	D.C.	2,865
86	HUGHES AIRCRAFT & RAYTHEON JV		31,500 *		Middletown	Rhode Isld	405
	Los Angeles	California	31,500		Dahlgren	Virginia	19,901
87	OSHKOSH TRUCK CORPORATION		31,047 *	98	SPACE DATA CORPATION	S	26,540 *
	Oshkosh	Wisconsin	31,047		Chandler	Arizona	16,020
88	R & D ASSOCIATES		31,038 *		Tempe	Arizona	10,520
	Concord	California	105	99	GENERAL DYNAMICS WESTNGHSE JV		26,500 *
	Los Angeles	California	43		Pomona	California	26,500
	Marina del Ray	California	15,732	101	BOOZ ALLEN & HAMILTON INC		26,150 *
	Colorado Sprng	Colorado	200		Huntsville	Alabama	1,607
	Albuquerque	New Mexico	6,070		Augusta	Maryland	220
	Kirtland AFB	New Mexico	5,983		Bethesda	Maryland	21,739
	Alexandria	Virginia	749		Tinton Falls	New Jersey	1,559
	Arlington	Virginia	50		Albuquerque	New Mexico	555
	GERMANY F		2,106		Fort Worth	Texas	199
					Arlington	Virginia	271

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102	BALL CORPORATION		25,441 *	116	KEARFOTT GUIDANCE NAVIG CORP		21,395 *
	Anaheim	California	229		Little Falls	New Jersey	21,202
	San Diego	California	6,338		Wayne	New Jersey	193
	Boulder	Colorado	15,202	118	SANDERS & AEL JV		20,869 *
	Broomfield	Colorado	586		Hudson	N.H.	20,869
	Albuquerque	New Mexico	585	120	C A E INDUSTRIES LTD		20,048 *
	Kirtland AFB	New Mexico	578		Luke Air Force	Arizona	650
	Fairborn	Ohio	244		Williams AFB	Arizona	92
	Wright Patters	Ohio	1,506		Jacksonville	Arkansas	2,430
	Bergstrom AFB	Texas	173		Silver Spring	Maryland	15,150
103	SPARTA INC	S	25,074 *		Dallas Ft Wort	Texas	131
	Huntsville	Alabama	4,442		Houston	Texas	724
	Del Mar	California	419		Alexandria	Virginia	871
	Edwards AFB	California	3,432	121	OLIN CORPORATION		19,380 *
	Laguna Hills	California	7,692		Stamford	Conn	94
	San Diego	California	7,289		St Petersburg	Florida	6,678
	Columbia	Maryland	49		East Alton	Illinois	9,051
	Lexington	Mass	203		Marion	Illinois	198
	McLean	Virginia	1,548		Red Lion	Penn	84
104	SANDERS ASSOC GEN ELECTRIC JV		24,899 *		Charleston	Tennessee	3,275
	Nashua	N.H.	24,899	122	GEO CENTERS INC	S	19,268 *
105	LOCKHEED SPACE OPERS CO		24,559 *		Washington	D.C.	6,592
	Titusville	Florida	24,559		Edgewood Arsen	Maryland	280
106	COLSA INC	S	24,443 *		Natick Resch	Mass	2,505
	Huntsville	Alabama	24,236		Newton	Mass	9,778
	El Paso	Texas	207		Watertown	Mass	28
107	GRUMMAN DATA SYSTEMS CORP		23,727 *		Picatinny Arse	New Jersey	85
	Bethpage	New York	4,000	123	STRATEGIC ANALYSIS INC	S	18,999 *
	Woodbury	New York	632		Arlington	Virginia	18,999
	McLean	Virginia	18,895	124	A A I CORPORATION		18,793 *
108	ELECTROSPACE SYSTEMS INC		23,473 *		Cockeysville	Maryland	18,793
	San Diego	California	644	125	HAZELTINE CORPORATION		18,645 *
	Eglin AFB	Florida	968		Anaheim	California	101
	Dayton	Ohio	2,418		San Diego	California	65
	Richardson	Texas	1,667		Braintree	Mass	9,870
	Waco	Texas	13,728		Greenlawn	New York	8,359
	Alexandria	Virginia	2,945		Huntington	New York	250
	Arlington	Virginia	1,103	126	THIOKOL CORPORATION		18,477 *
110	INTERSTATE ELECTRONICS CORP		22,741 *		Huntsville	Alabama	6,355
	Anaheim	California	22,741		Elkton	Maryland	2,698
111	GENERAL RESEARCH CORPORATION		22,593 *		Brigham City	Utah	9,424
	Huntsville	Alabama	10,348	127	PLANNING RESEARCH CORPORATION		18,405 *
	Santa Barbara	California	9,896		Hickam AFB	Hawaii	3,354
	Arlington	Virginia	300		Offutt AFB	Nebraska	5,644
	McLean	Virginia	639		Philadelphia	Penn	767
	Vienna	Virginia	1,410		McLean	Virginia	8,640
112	NEWPORT NEWS SHPBLDING DRYDOCK		22,574 *	128	EATON CORPORATION		18,219 *
	Newport News	Virginia	22,574		Deer Park	New York	16,463
114	INTERMETRICS INC		21,699 *		Melville	New York	1,756
	Huntington Bch	California	2,638	129	KAMAN CORPORATION		17,760 *
	Cambridge	Mass	2,021		Bloomfield	Conn	17,760
	Oceanport	New Jersey	7,075	130	AVCO RESEARCH LABORATORY INC		16,679 *
	Dayton	Ohio	1,367		Puunene	Hawaii	7,940
	Warminster	Penn	8,598		Everett	Mass	8,739
115	CONTEL FEDERAL SYSTEMS INC		21,513 *	131	CUMMINS ENGINE COMPANY INC		16,677 *
	San Diego	California	354		Columbus	Indiana	16,677
	Thousand Oaks	California	244				
	Westlake Villa	California	200				
	Washington	D.C.	1,311				
	Gaithersburg	Maryland	15,184				
	Shrewsbury	New Jersey	550				
	Fairfax	Virginia	3,670				

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132	TRACOR APPLIED SCIENCES INC San Diego California Groton Conn New London Conn Austin Texas San Antonio Texas	16,324 * 606 648 1,023 13,097 950	143	ITT & MARTIN MARIETTA JV Orlando Florida	15,302 * 15,302
133	CADILLAC GAGE TEXTRON INC Aberdeen Maryland Warren Michigan	16,123 * 123 16,000	144	DYNETICS INC Huntsville Alabama	S 15,219 * 15,219
134	ADVANCED TECHNOLOGY INC Camarillo California San Diego California Albuquerque New Mexico Arlington Virginia Dahlgren Virginia Reston Virginia	16,086 * 75 762 2,383 64 1,662 11,140	145	PERCEPTRONICS INC Los Angeles California Woodland California	S 15,042 * 463 14,579
135	GENERAL MOTORS CORPORATION Indianapolis Indiana Warren Michigan	16,063 * 15,906 157	146	PERKIN ELMER CORPORATION Hayward California Danbury Conn Norwalk Conn Wilton Conn	15,039 * 1,050 9,963 3,328 698
136	UNIVERSAL ENERGY SYSTEMS INC	S 15,829 *	147	M/A COM LINKABIT INC San Diego California Vienna Virginia	14,850 * 14,677 173
137	CHAMBERLAIN MANUFACTURING CORP Niles Illinois North Aurora Illinois Waterloo Iowa Saco Maine Bethesda Maryland Cockeysville Maryland	15,759 * 110 120 9,837 444 4,598 650	148	INTEGRATED SYSTEMS ANALYSTS San Diego California Arlington Virginia Merrifield Virginia	S 14,455 * 5,687 7,093 1,675
138	SYSTEM PLANNING CORPORATION San Diego California Santa Cruz California Patuxent River Maryland Arlington Virginia	15,559 * 115 438 75 14,931	149	R J O ENTERPRISES INC Lanham Maryland Dayton Ohio	S 14,117 * 12,623 1,494
139	VITRO CORPORATION Bath Maine Bethesda Maryland Silver Spring Maryland Warminster Penn Dahlgren Virginia	15,506 * 31- 632 9,523 722 4,660	151	SYSTEMS RESEARCH LABORATORIES Dayton Ohio Wright Patters Ohio San Antonio Texas	13,717 * 3,789 9,062 866
140	PAR TECHNOLOGY CORPORATION Palo Alto California Redondo Beach California Santa Monica California Colorado Sprng Colorado Trumbull Conn Washington D.C. Cabin John Bro Maryland Omaha Nebraska Bethpage New York New Hartford New York Rome New York Syracuse New York Utica New York	15,448 * 79 138 285 4,145 252 395 220 437 350 6,595 1,226 1,218 108	152	ASSURANCE TECHNOLOGY CORP Melbourne Florida Carlisle Mass Chelmsford Mass	S 13,666 * 300 9,877 3,489
141	ASTRO VALCOUR INC Princeton New Jersey	15,410 * 15,410	153	PHYSICS INTERNATIONAL COMPANY San Leandro California Andover Mass	13,666 * 13,413 253
142	ARINC RESEARCH CORPORATION San Diego California Annapolis Maryland Dayton Ohio	15,325 * 10,690 3,157 1,478	154	ORINCON CORPORATION Placentia California San Diego California	S 13,571 * 108 13,463
			156	ACUREX CORPORATION Mountain View California Dayton Ohio Wright Patters Ohio	13,465 * 10,026 2,417 1,022
			158	ANALYSIS & TECHNOLOGY INC New London Conn New London Nav Conn N Stonington Conn Panama City Be Florida Chesapeake Virginia	13,054 * 3,618 589 4,990 3,425 432
			160	SPARTON CORPORATION Fort Wayne Indiana Jackson Michigan	12,809 * 4,808 8,001
			161	S F A INC Washington D.C. Bethesda Maryland Landover Maryland	S 12,783 * 8,951 132 3,700
			162	FIBERTEK INC Herndon Virginia	S 12,394 * 12,394

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163	CBI NA CON INC Memphis	12,246 *	184	MODERN TECHNOLOGIES CORP Oceanport Dayton San Antonio	S 9,703 * 35 7,622 2,046
164	SOFTECH INC San Diego Waltham Fairborn Houston Alexandria	12,015 * 2,825 441 650 420 7,679	185	GENERAL ATOMICS San Diego Middletown	9,663 * 9,419 244
165	LOCKHEED ELECTRONICS CO Plainfield White Sands Ms	11,766 * 844 10,922	187	VITRONICS INC Eatontown	S 9,585 * 9,585
166	INTEL CORPORATION Beaverton	11,629 * 11,629	188	ADVANCED DECISION SYSTEMS Mountain View Arlington	S 9,554 * 9,026 528
167	ARMORED VHCLC TCHNLOGIES ASSO Troy	11,526 * 11,526	189	SMITHS INDUSTRIES INC USA Grand Rapids	9,525 * 9,525
168	COLEMAN RESEARCH CORPORATION Huntsville Orlando White Sands Ms	S 11,421 * 7,002 4,382 37	190	SRS TECHNOLOGIES Huntsville Newport Beach Albuquerque	S 9,308 * 2,361 6,760 187
169	LOCUS INC Paradise Beach State College Alexandria Arlington	11,164 * 1,440 7,940 1,628 156	192	SCIENCE & TECHNOLOGY CORP Las Cruces White Sands Ms Hampton	S 9,127 * 859 25 8,243
170	STERIMATICS CORPORATION Bedford	11,140 * 11,140	193	AEROMET INC Tulsa Yona	S 9,077 * 6,640 2,437
173	DEFENSE SYSTEMS INC McLean	S 10,838 * 10,838	195	SONALYSTS INC San Diego New London Waterford Newport	9,009 * 1,362 290 5,939 1,418
174	STERLING FEDERAL SYSTEMS INC Bellevue	10,746 * 10,746	196	SYSTEMS EXPLORATION INC San Diego Dayton San Antonio	S 9,006 * 7,976 991 39
175	HUGHES TRAINING SYS INC Arlington	10,601 * 10,601	198	MANTECH INTERNATIONAL CORP Sierra Vista Edwards AFB Los Alamos Wright Patters Warminster Alexandria Arlington	8,907 * 1,888 451 30 3,212 325 1,524 1,477
176	SPACE APPLICATIONS CORPORATION Santa Ana Santa Clara	S 10,592 * 2,245 8,347	199	CAS INC Huntsville	8,877 * 8,877
177	DIRECTED TECHNOLOGIES INC Arlington Vienna	S 10,439 * 10,100 339	200	ALLIED SIGNAL INC Phoenix Los Angeles Des Plaines Mishawaka Baltimore Columbia Morristown Teterboro Charlotte	8,829 * 282 288 65 216 2,364 464 614 4,456 80
178	LITTLE ARTHUR D INC Cambridge	10,375 * 10,375	201	COMPRHENSIVE TECHNOLOGIES INTL Arlington Chantilly	S 8,716 * 7,112 1,604
179	MINNESOTA MIN & MFG COMPANY St Paul	10,315 *			
181	FOSTER MILLER INC Clearwater Burlington Waltham	S 10,000 * 2,684 60 7,256			
182	ECONOMICS TECHNOLOGY ASSOC Culver City Point Mugu Nav San Diego	S 9,782 * 1,050 5,503 3,229			
183	BABCOCK & WILCOX COMPANY THE New Orleans Alliance Lynchburg	9,734 * 1,267 1,243 7,224			

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202	HILTON SYSTEMS INC Huntsville Vicksburg Mount Arlington	8,639 * 5,206 1,587 1,846	225	CONTRAVES GOERZ CORPORATION Boston Koppel Pittsburgh	7,680 * 85 6,880 715
203	COMARCO INC Sierra Vista	8,608 * 8,608	226	AMERICAN SYSTEMS CORPORATION Annandale Chantilly	7,632 * 7,464 168
204	ROHM & HAAS COMPANY Philadelphia Spring House	8,599 * 7,620 979	227	VEDA INCORPORATED Dayton Warminster	7,486 * 1,480 4,987
206	PLANNING SYSTEMS INCORPORATED Long Beach McLean	8,539 * 140 8,399		Alexandria Arlington Richmond	209 644 166
207	MARVIN ENGINEERING CO INC Inglewood	8,423 * 8,423	228	SEMCOR INC San Diego Mount Holly	7,455 * 349 52
208	COMBUSTION ENGINEERING INC Sierra Vista Windsor	8,416 * 8,355 61		Mount Laurel Warminster	6,378 676
209	RAYTHEON SERVICE COMPANY Burlington Lexington White Sands Ms Wright Patters	8,377 * 7,627 150 140 460	229	PACIFIC SIERRA RESEARCH CORP Edwards AFB Los Angeles Santa Monica White Sands Ms Arlington	7,423 * 229 4,606 1,959 530 99
210	CLAMSHELL BUILDINGS INC Santa Barbara	8,336 * 8,336	231	JASON ASSOCIATES CORPORATION Del Mar	7,282 * 7,282
211	XEROX CORPORATION Palo Alto Pasadena Cambridge	8,296 * 1,840 5,959 497	232	LAURENCE ASSOCIATES INC Dayton	7,267 *
214	ANALYTIX ELECTRONIC SYSTEMS Hudson	8,197 * 8,197	233	WESTERN INSTRUMENT CORPORATION Ventura	7,225 *
215	SUNDSTRAND CORPORATION San Diego Rockford	8,091 * 1,850 6,241	234	FAIRCHILD INDUSTRIES INC Washington Annapolis Germantown Farmingdale	7,147 * 367 2,365 4,045 370
216	LOS ALAMOS TECHNICAL ASSOC INC Los Alamos	8,011 * 8,011	235	HARRIS MAGNAVOX SYSTEMS CO JV Melbourne	7,124 * 7,124
218	PACER SYSTEMS INC Panama City Billerica Beechersville Hatboro Horsham Kingston Wallingford	7,924 * 2,813 210 113 32 4,556 205 5-	236	SYNDETIX INC Las Cruces White Sands Ms	7,087 * 307 6,780
219	AUTOMATED SCIENCES GROUP INC Huntsville	7,913 * 7,913	238	PARSONS RALPH M COMPANY THE Pine Bluff Ars Pasadena	7,065 * 2,257 4,808
223	QUESTECH INC Oceanport Dayton Paoli Arlington Falls Church McLean	7,750 * 149 1,319 135 111 2,436 3,600	239	SANDERS ASSOCIATES INTERNATNL Hudson Manchester Merrimack Nashua	7,012 * 259 2,249 35 4,469
224	TIBURON SYSTEMS INC San Jose	7,694 * 7,694	240	EG&G WASHINGTON ANALYTICAL SVC New London Rockville Kirtland AFB Dahlgren	6,999 * 1,765 1,552 327 3,355
			241	ALLIANCE DEVELOPMENT CORP Minnetonka	6,972 * 6,972

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244	TELEPHONICS CORPORATION Deer River New York	6,834 * 6,834	266	ENVIRNMENTAL TECHNOLOGIES GROUP Baltimore Maryland	S 6,002 * 6,002
245	RGI INC San Diego California	6,831 * 6,831	267	EARTH TECHNOLOGY CORP USA Long Beach California	S 5,970 * 5,970
246	S SYSTEMS CORPORATION Inglewood California Los Angeles California Albuquerque New Mexico	S 6,809 * 272- 4,247 2,834	268	ENSCO INC Indian Harbour Florida Melbourne Florida Springfield Virginia	S 5,931 * 2,560 91 3,280
247	UNION CORPORATION Scranton Penn	6,781 * 6,781	269	VECTOR RESEARCH COMPANY INC Antietam Maryland Bethesda Maryland	S 5,904 * 50 5,854
249	SYSTEMS ENGRG & MGT ASSOC Arlington Virginia Falls Church Virginia Front Royal Ju Virginia	S 6,688 * 573 4,215 1,900	270	ARETE ASSOCIATES Los Angeles California Arlington Virginia	S 5,874 * 5,574 300
250	UNITED INTERNATIONAL ENGRG Huntsville Alabama Albuquerque New Mexico	S 6,652 * 1,164 5,488	271	ZYCAD CORPORATION Mount Olive New Jersey	5,857 * 5,857
252	ANDRULIS RESEARCH CORP Bethesda Maryland Salt Lake City Utah	S 6,581 * 5,682 899	273	APTEK INC Colorado Sprgs Colorado	S 5,674 * 5,674
254	DU PONT E I DE NMOURS COMPANY Newark Delaware Wilmington Delaware	6,573 * 50 6,523	274	SYSTEM DYNAMICS INTERNATIONAL Huntsville Alabama Gainesville Florida	S 5,670 * 220 5,450
255	BRUNSWICK CORPORATION Costa Mesa California De Land Florida Marion Virginia	6,510 * 260 4,280 1,970	275	VSE CORPORATION Valparaiso Florida Alexandria Virginia	5,670 * 2,762 2,908
256	MAR INCORPORATED Panama City Florida College Park Maryland Rockville Maryland	S 6,313 * 2,744 57 3,512	277	DIGITAL EQUIPMENT CORPORATION Lanham Maryland Dayton Ohio Arlington Virginia	5,596 * 376 5,180 40
257	N K F ENGINEERING INC San Diego California Arlington Virginia Reston Virginia Rustburg Virginia	S 6,265 * 389 2,715 3,136 25	278	THINKING MACHINES CORPORATION Cambridge Mass	S 5,583 * 5,583
258	MILTOPE CORPORATION Melville New York	S 6,264 * 6,264	279	QUEST RESEARCH CORPORATION Falls Church Virginia McLean Virginia	5,562 * 4,651 911
259	BDM MANAGEMENT SERVICES CO Kirtland AFB New Mexico	6,218 * 6,218	280	PHOTON RESEARCH ASSOCIATES Placentia California San Diego California Cambridge Mass	S 5,520 * 240 5,092 188
261	MAC AULAY BROWN INC Dayton Ohio Wright Patters Ohio	S 6,185 * 3,842 2,343	282	RESEARCH ANALYSIS & MAINT El Paso Texas	S 5,472 * 5,472
262	UNIVERSAL TECHNOLOGY CORP Dayton Ohio	S 6,143 * 6,143	283	SYSTEMS PLANNING & ANALYSIS Falls Church Virginia	S 5,470 * 5,470
263	EAGLE TECHNOLOGY INC Orlando Florida Winter Park Florida McLean Virginia	S 6,130 * 66 417 5,647	284	XONTECH INC Los Angeles California	S 5,307 * 5,307
264	BICOASTAL CORPORATION Jacksonville Arkansas Glendale California	6,101 * 618 5,483	285	ELECTROMAGNETIC LAUNCH RES Cambridge Mass Hudson Mass	5,288 * 376 4,912
265	ALLIANCE TECHSYSTEMS INC Eatontown New Jersey	6,025 * 6,025	287	SCIENCE RESEARCH LABORATORY Alameda California Somerville Mass	S 5,259 * 778 4,481

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288	DYNCORP White Sands Ms Fort Worth	5,235 * 5,005 230	312	WALLACE & CO South Bend Cary	S 4,562 * 4,652 90-
290	ENGINEERING & ECONOMICS RES Huntsville Orlando Oceanport Reston Vienna	S 5,206 * 453 966 604 3,103 80	313	SOFTWARE TECHNOLOGY INC Washington Melbourne	4,540 * 445 4,095
291	HYDROACOUSTICS INC Rochester	S 5,202 * 5,202	314	EDO CORPORATION Shelton New York	4,537 * 395 4,142
292	MICRION CORPORATION Peabody	S 5,091 * 5,091	315	INFOTEC DEVELOPMENT INC Santa Ana	S 4,515 * 4,515
293	EBASCO SERVICES INCORPORATED New York	5,060 * 5,060	317	ORLANDO TECHNOLOGY INC Eglin AFB Orlando Shalimar	S 4,479 * 76 590 3,813
294	PHYSICAL RESEARCH INC Huntsville Torrance	S 5,023 * 37 4,986	318	BECHTEL NATIONAL INC San Francisco	4,428 * 4,428
295	ANALYTICAL SYSTEMS ENGRG CORP Westlake Villa Melbourne Clarksburg Laurel Burlington Offutt AFB Rome Dayton	S 5,017 * 480 946 156 290 2,712 325 58 50	319	ROCKWELL POWER SYSTEMS Albuquerque Kirtland AFB	4,424 * 1,277 3,147
296	CALIFORNIA RES & TECHNOLOGY Los Angeles Princeton	4,982 * 4,907 75	320	ASI SYSTEMS INTERNATIONAL Anaheim Ft Walton Bch Aberdeen	S 4,399 * 1,502 2,622 275
299	TECOLOTE RESEARCH INC Santa Barbara Arlington	S 4,893 * 4,800 93	321	DBA SYSTEMS INC Melbourne	S 4,391 * 4,391
300	EMERSON ELECTRIC CO St Louis	4,876 * 4,876	322	AERODYNE RESEARCH INC Bedford Billerica	S 4,371 * 140 3,921
301	MICROELECTRONICS Austin	Texas	323	E C CORPORATION OF OAK RIDGE Huntsville Knoxville	S 4,349 * 4,299 50
304	PULSE SCIENCES INC Agoura Hills San Leandro	4,753 * 29 4,724	324	SOUTHERN RESEARCH TECHNOLOGIES Birmingham	S 4,339 * 4,339
306	VARIAN ASSOCIATES INC Marina del Ray Palo Alto Santa Clara Beverly	4,731 * 171- 1,996 1,811 1,095	325	VEDA INTERNATIONAL INC Dayton	4,336 * 4,336
309	WESTERN RESEARCH CORPORATION San Diego	4,598 * 4,598	326	SIPPICAN INC Marion	4,325 * 4,325
310	APPLIED MEASUREMENT SYSTEMS New London Ft Lauderdale Hollywood Middletown	S 4,576 * 629 81 3,795 71	328	APPLIED RESEARCH INC Huntsville	S 4,291 * 4,291
311	AM GENERAL CORPORATION Livonia Dallas	4,569 * 4,119 450	329	SUMARIA SYSTEMS INC Wakefield	S 4,277 * 4,277
			330	SYNETICS CORPORATION El Cajon Reading Wakefield	S 4,252 * 50 434 3,768
			332	SYSTEM DEVELOPMENT CORPORATION San Diego Eatontown Dahlgren	4,222 * 1,968 1,934 320
			334	MECHANICAL TECHNOLOGY INC Latham Cincinnati	4,145 * 4,035 110

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335	TEXAS INSTRUMENTS WESTINGHSE JV Dallas Texas	4,142 * 4,142	359	LOGISTICS MANAGEMENT ENGRG China Lake NUC Warminster	3,656 * 1,012 2,644
336	APPLIED TECHNOLOGY ASSOCIATES Orlando Florida Albuquerque New Mexico	S 4,121 * 50 4,071	360	APPLIED LEARNING INTERNATIONAL Atlanta Georgia Arlington Virginia	S 3,647 * 3,597 50
337	POWER SPECTRA INC Fremont California	S 4,099 * 4,099	361	SCHWARTZ ELECTRO OPTICS INC Orlando Florida Concord Mass	S 3,579 * 3,232 347
338	SPIRE CORPORATION Bedford Mass	S 4,097 * 4,097	362	CARTURIGHT ELECTRONICS INC Amado Arizona Fullerton California	S 3,576 * 148 3,428
339	TITAN SYSTEMS INC San Diego California	4,096 * 4,096	365	SCIENCE & ENGINEERING ASSOC Albuquerque New Mexico	S 3,538 * 3,538
340	IRT CORPORATION San. Diego California	S 4,042 * 4,042	366	THERMO ELECTRON TECH CORP San Diego California	3,523 * 3,523
341	KOLLMORGEN CORPORATION New London Conn Northampton Mass	4,036 * 88 3,948	368	KEYSTONE COMPUTER ASSOC Ft Washington Penn	S 3,481 * 3,481
342	MICROCOSM Torrance California	S 4,001 * 4,001	369	WITTMAMS INTERNATIONAL CORP Walled Lake Michigan GERMANY F	3,475 * 2,836 639
343	BERKELEY RESEARCH ASSOCIATES Berkeley California Washington D.C. Springfield Virginia	S 3,989 * 2,106 381 1,502	370	HUGHES ASSOCIATES INC Washington D.C. Wheaton Glenmo Maryland	S 3,462 * 3,371 91
344	CTA INCORPORATED Ridgecrest California Lanham Maryland Dayton Ohio	S 3,986 * 683 63 3,240	371	KETRON INC Towson Maryland Malvern Penn Warminster Penn	S 3,462 * 915 2,467 80
345	EVALUATION RESEARCH CORP San Diego California Fairfax Virginia	3,944 * 434 3,510	372	EG&G INC Las Vegas Nevada Albuquerque New Mexico Kirtland AFB New Mexico	3,458 * 2,411 297 750
346	AUTOMATION RES SYSTEMS LTD Alexandria Virginia	S 3,932 * 3,932	373	DOSS AVIATION INC Enterprise Alabama Shepherd Texas	S 3,451 * 3,124 327
348	DAVID SARNOFF RESEARCH CENTER San Jose California Chelsea New Jersey Princeton New Jersey	3,861 * 1,437 75 2,349	376	BELL HELICOPTER TEXTRON INC Fort Worth Texas	3,420 * 3,420
350	RAIL COMPANY Falls Church Virginia	S 3,838 * 3,838	377	DECISION SCIENCE APPLICATIONS Arlington Virginia	S 3,395 * 3,395
351	REMINGTON ARMS COMPANY INC Ilion New York	3,787 * 3,787	379	GENERAL INSTRUMENT CORP DEL Belmont California Hicksville New York	3,385 * 2,999 386
353	EG&G SPECIAL PROJECTS Rockville Maryland Las Vegas Nevada Kirtland AFB New Mexico	3,768 * 1,000 1,252 1,516	380	ADVANCED TECHNOLOGY & RESEARCH San Diego California Laurel Maryland	S 3,366 * 60 3,306
355	DIGICOMP RESEARCH CORP Ithaca New York Rome New York	S 3,755 * 731 3,024	381	ELECTRONIC WARFARE ASSOCIATES Huntsville Alabama Dayton Ohio Vienna Virginia	S 3,358 * 1,511 95 1,752
356	SYSTEM RESOURCES CORPORATION Eatontown New Jersey Shrewsbury New Jersey	S 3,718 * 3,252 466	382	B D SYSTEMS INC Torrance California	S 3,356 * 3,356
358	LOCKHEED ENGINEERING & SCIENCE Dugway Proving Utah	3,700 * 3,700	383	APPLIED RESEARCH ASSOC INC Huntsville Alabama Lakewood Colorado Aberdeen Maryland Albuquerque New Mexico Raleigh N Carolina	S 3,349 * 48 74 118 1,916 740

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**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
	APPLIED RESEARCH ASSOC INC South Royalton Vermont Springfield Virginia	275 178	408	TRUSTED INFORMATION SYSTEMS Glenwood Maryland	S 2,991 * 2,991
384	KRUG INTERNATIONAL CORPORATION Dayton Ohio San Antonio Texas	3,325 * 223 3,102	409	KNOWLEDGE SYSTEMS CONCEPTS Wichita Kansas Rome New York Falls Church Virginia	S 2,989 * 250 1,885 854
386	FIBER MATERIALS INC Bodcau Arkansas Biddeford Maine	S 3,285 * 59 3,226	410	ELECTRO DESIGN MANUFACTURING Decatur Alabama	S 2,982 * 2,982
387	MESILLA VALLEY HIGH TECH IND Huntsville Alabama	S 3,281 * 3,281	412	SYSTEMS RES APPLICATIONS CORP El Segundo California Arlington Virginia	2,965 * 2,160 805
388	ELECTRONIC ASSOCIATES INC W Long Branch New Jersey	S 3,265 * 3,265	413	RDR INC Fairfax Virginia	S 2,960 * 2,960
389	WYLE LABORATORIES El Segundo California Hampton Virginia	3,243 * 687 2,556	414	OPTIC ELECTRONIC CORP Dallas Texas	2,958 * 2,958
391	TRACOR AEROSPACE INC San Jose California San Ramon California Austin Texas	3,212 * 55 586 2,571	415	GENERAL MGT ASSOCIATES Abingdon Maryland	S 2,940 * 2,940
393	INTERNATIONAL SOFTWARE SYSTEMS Austin Texas	S 3,173 * 3,173	416	ENCORE COMPUTER CORPORATION Marlborough Mass	2,938 * 2,938
394	DAMES & MOORE Atlanta Georgia Bethesda Maryland	3,164 * 263 2,901	417	ODETICS INC Anaheim California	S 2,913 * 2,913
395	MCDONNELL DOUGLAS INCO INC Chesapeake Virginia	3,153 * 3,153	418	WAGNER DANIEL H ASSOCIATES Sunnyvale California Paoli Penn Hampton Virginia	S 2,897 * 51 1,245 1,601
396	GUILD ASSOCIATES INC Columbus Ohio Hilliard Ohio	S 3,143 * 2,665 478	420	CREARE INC Hanover N.H.	S 2,886 * 2,886
397	G T E SYLVANIA COM PRODUCTS Needham Mass	3,124 * 3,124	421	PRESEARCH INCORPORATED Panama City Florida Fairfax Virginia	2,885 * 792 2,093
399	ASP CONSORTIUM Ontario California	3,119 * 3,119	422	SYSTEMS & LOGISTICS CORP San Bernardino California Torrance California	S 2,876 * 1,716 1,160
400	GENERAL APPLIED SCIENCE Ronkonkoma New York	S 3,111 * 3,111	423	AMERICAN OPTICAL CORPORATION Southbridge Mass	2,872 * 2,872
401	FABEL SYS CORP Malabar Florida	S 3,108 * 3,108	424	ODYSSEY RESEARCH ASSOCIATES Ithaca New York	S 2,870 * 2,870
402	ANALYSIS & COMPUTER SYSTEMS Bedford Mass	S 3,099 * 3,099	426	TELECOMMUNICATION SCIENCE ASSOC San Diego California Dallas Texas	S 2,829 * 2,795 34
403	SYSTEMS & ELECTRONICS INC Elk Grove Vill Illinois	S 3,078 * 3,078	427	HORIZONS TECHNOLOGY INC San Diego California	S 2,803 * 2,803
404	NATIONS INC Oceanport New Jersey Shrewsbury New Jersey	S 3,073 * 2,623 450	428	DRAVO CORPORATION Pittsburgh Penn	2,779 * 2,779
406	ORION INTL TECHNOLOGIES Bedford Mass Albuquerque New Mexico White Sands Ms New Mexico	S 3,026 * 143 2,815 68	429	DCS CORPORATION Alexandria Virginia	S 2,772 * 2,772
407	TETRA TECH INC San Bernardino California	3,016 * 3,016	430	EASTMAN KODAK COMPANY Pasadena California Rochester New York	2,730 * 35 2,695
			431	TECHNOLOGY DEVELOPMENT CORP Huntsville Alabama	S 2,721 * 2,721

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**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1990**

Rank	Name of Contractor	Location of Work	Thousands of Dollars	Rank	Name of Contractor	Location of Work	Thousands of Dollars
432	METRON INC						
	Solana Beach	California	2,708 *				
	Warminster	Penn	131				
	Falls Church	Virginia	1,029				
	McLean	Virginia	320				
			1,168				
433	CASDE CORPORATION			450	FRIED D L ASSOCIATES INC		
	Camp Pendleton	California	2,706 *		Placentia	California	2,635 *
	Torrance	California	1,400				2,635
	Conshohocken	Penn	496				
	Arlington	Virginia	670	451	SUMMA TECHNOLOGY INC		2,629 *
			140		Huntsville	Alabama	2,629
434	EER SYSTEMS CORP			453	TECHNICAL & MGT SVCS CORP		
	Huntsville	Alabama	2,705 *		Calverton	Maryland	2,611 *
	Beltzville	Maryland	1,844		Oceanport	New Jersey	574
	Vienna	Virginia	300		Wright Patters	Ohio	1,819
			561				218
435	WEIDLINGER ASSOCIATES INC			454	AQUIDNECK SYSTEMS INTL		
	Los Altos	California	2,697 *		Middletown	Rhode Isld	2,600 *
	Palo Alto	California	75				2,600
	New York	New York	803				
			1,819	455	EPOCH ENGINEERING INC		2,596 *
					Gaithersburg	Maryland	2,596
436	AEL INDUSTRIES INC			456	NORDEN SYSTEMS INC		
	Lansdale	Penn	2,689 *		Norwalk	Conn	2,587 *
			2,689		Gaithersburg	Maryland	1,854
437	SIERRA NEVADA CORPORATION				Melville	New York	544
	Reno	Nevada	2,676 *	457	ALPHATECH INC		189
	Verdi	Nevada	2,108		Burlington	Mass	
			568				2,573 *
				458	FALCON ASSOCIATES		2,573
					McLean	Virginia	2,563 *
					Springfield	Virginia	1,395
438	SUPERCONDUCTOR TECHNOLOGIES						1,168
	Santa Barbara	California	2,673 *	459	MULTI ELECTRIC MFG INC		
			2,673		Chicago	Illinois	2,549 *
440	BELOIT CORPORATION						2,549
	Livonia	Michigan	2,667 *	461	INTRASPACE CORPORATION		
			2,667		N Salt Lake	Utah	2,520 *
441	HARRIS SEMICONDUCTOR						2,520
	Research Trian	N Carolina	2,665 *	462	TRUAX ENGINEERING		
			2,665		Saratoga	California	2,507 *
442	PHYSICAL OPTICS CORPORATION						2,507
	Simi	California	2,657 *	463	DYNAMICS RESEARCH CORPORATION		
	Torrance	California	178		Fort Knox	Kentucky	2,505 *
			2,479		Wilmington	Mass	690
443	KDI PRECISION PRODUCTS INC						1,415
	Cincinnati	Ohio	2,656 *		Newport	Rhode Isld	250
	Circleville	Ohio	1,296		Arlington	Virginia	150
			1,360	464	ADVANCED SCIENCES INC		
444	CROSS SYSTEMS INC						2,477 *
	Alpharetta	Georgia	2,654 *		Tyndall AFB	Florida	320
	Atlanta	Georgia	1,878		Albuquerque	New Mexico	2,157
445	COMPTEK RESEARCH INC						
	Goleta	California	2,652 *	465	DATA DESIGN LABORATORIES		2,456 *
			2,652		New London	Conn	339
446	ATLANTIC AEROSPACE ELECTRONICS						2,117
	Greenbelt	Maryland	2,651 *		Chantilly	Virginia	
	Waltham	Mass	1,122	466	FAAC INCORPORATED		
			1,529		Ann Arbor	Michigan	2,434 *
447	AEPCO INC						2,384
	Bethesda	Maryland	2,647 *		Philadelphia	Penn	50
	Rockville	Maryland	1,599	467	INTERFEROMETRICS INC		
			1,048		Washington	D.C.	1,795
448	CORNING INC						638
	Canton	New York	2,647 *		Vienna	Virginia	
	Corning	New York	1,569	468	AMOCO CHEMICAL COMPANY		
			1,078		Ridgefield	Conn	2,408 *
449	ADVANCE SYSTEMS TECHNOLOGY						1,700
	Atlanta	Georgia	2,643 *		Atlanta	Georgia	708
	Arlington	Virginia	1,298	469	INFORMATION SYSTEMS NTWRKS CORP		
	York	Virginia	1,258		Bethesda	Maryland	2,383 *
			87		Dayton	Ohio	2,409
				470	ARDAK CORPORATION		26-
					McLean	Virginia	
							2,378 *
							2,378

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**Table 2. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Business Firms: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
471	PHYSICAL SCIENCES INC Andover Mass Alexandria Virginia	S 2,378 * 2,321 57	492	CENTURY COMPUTING INC Laurel Maryland Wright Patters Ohio McLean Virginia	S 2,211 * 1,725 177 309
472	MADEN TECH CONSULTING INC Arlington Virginia McLean Virginia	S 2,377 * 445 1,932	493	PARKER KINETIC DESIGN INC Eglin AFB Florida Austin Texas	2,206 * 100 2,106
473	OPTIMETRICS INC Ann Arbor Michigan Hampton Virginia	S 2,360 * 1,289 1,071	494	LEADING SYSTEMS INC Irvine California	S 2,200 * 2,200
474	METRICA INC Bryan Texas	S 2,356 * 2,356	495	TEXTRON INC Los Angeles California San Diego California Buffalo New York Niagara Falls New York Wheatfield New York	2,191 * 377 781 803 100 130
475	EAGLE PICHET INDUSTRIES INC El Segundo California Colorado Sprng Colorado Lenexa Kansas Joplin Missouri	2,350 * 577 485 240 1,048	496	EASTERN COMPUTERS INC Alexandria Virginia	S 2,184 * 2,184
477	STEWART & STEVENSON SVCS INC Houston Texas	2,345 * 2,345	497	TREMETRICS INC Austin Texas	2,164 * 2,164
478	DYNCORP APPLIED TECHNOLOGY Yuma Proving G Arizona Wright Patters Ohio	2,338 * 1,987 351	499	PLANNING CONSULTANTS INC Dahlgren Virginia	S 2,134 * 2,134
479	STATISTICA INC Clarksville Maryland Columbia Maryland	S 2,336 * 50 2,286			TOTAL 18,567,883
480	USER TECHNOLOGY ASSOCIATES Alexandria Virginia	S 2,324 * 2,324			
481	HYPRES INC Elmsford New York	S 2,313 * 2,313			
482	LEAR ASTRONICS CORP Santa Monica California	2,301 * 2,301			
483	ELECTRONIC DECISIONS INC Urbana Illinois	S 2,300 * 2,300			
484	I NET INC Rockville Maryland	S 2,293 * 2,293			
485	SIMULATION TECHNOLOGIES INC Huntsville Alabama Dayton Ohio	S 2,293 * 818 1,475			
486	STANFORD TELECOMMUNICATIONS Santa Clara California Reston Virginia	S 2,290 * 1,279 1,011			
488	GEODYNAMICS CORPORATION Santa Barbara California Alexandria Virginia	2,273 * 1,673 600			
489	QUALCOMM INC San Diego California	S 2,270 * 2,270			
490	ORION RESEARCH INCORPORATED Tampa Florida Fort Bragg N Carolina Arlington Virginia PANAMA	S 2,264 * 188 432 612 1,032			
491	RADIX SYSTEMS INC Rockville Maryland	S 2,230 * 2,230			

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**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
12	MASSACHSETTS INST OF TECHNOLOGY Cambridge Mass Lexington Mass St Paul Minnesota	455,149 * 22,615 432,504 30	84	ANALYTIC SERVICES INC Colorado Sprgs Colorado Arlington Virginia	34,751 * 394 34,357
14	AEROSPACE CORPORATION El Segundo California	416,217 * 416,217	89	UNIVERSITY OF STHERN CALIFORNIA Los Angeles California San Diego California	30,953 * 30,888 65
15	MITRE CORPORATION Bedford Mass McLean Virginia	407,283 * 407,354 71-	96	GEORGIA TECH RESEARCH CORP Redstone Arsen Alabama Eglin AFB Florida Atlanta Georgia	27,593 * 48 180 27,365
18	JOHNS HOPKINS UNIVERSITY Baltimore Maryland Laurel Maryland White Crystal Maryland	373,946 * 2,132 371,754 60	97	UNIVERSITY OF WASHINGTON Seattle Washington	26,796 * 26,796
46	RAND CORPORATION Los Angeles California Santa Monica California	79,318 * 25,243 54,105	100	BATTELLE MEMORIAL INSTITUTE Auburn Alabama Florence Alabama Guntersville Alabama Huntsville Alabama Tucson Arizona Berkeley California Claremont California Cupertino California El Cerrito California El Macero California Lancaster California Menlo Park California San Diego California Fort Collins Colorado Mansfield Cent Conn Middletown Conn Woodbridge Conn Washington D.C. Gainesville Florida Indialantic Florida Orlando Florida Spring Hill Florida Tallahassee Florida Tampa Florida Winter Park Florida Norcross Georgia Chicago Illinois Edwardsville Illinois Skokie Illinois West Lafayette Indiana Lawrence Kansas Wichita Kansas Lexington Kentucky Baton Rouge Louisiana Orono Maine Baltimore Maryland Rockville Maryland Boston Mass Groton Mass North Andover Mass Wellesley Mass Worcester Mass Detroit Michigan Houghton Michigan Midland Michigan Mount Pleasant Michigan Okemos Michigan Minneapolis Minnesota Minnetonka Minnesota Mississippi St Miss Starkville Miss Chesterfield Missouri St Louis Missouri Omaha Nebraska Nashua N.H. Colts Neck New Jersey Mays Landing New Jersey Phillipsburg New Jersey	107 28 26 27 30 89 45 37 33 29 37 54 54 35 27 25 125 76 31 111 58 45 46 59 81 27 49 116 41 126 41 32 46 30 75 80 55 38 26 144 44 31 34 41 53 70 55 69 111 42 37 36 124 56 40 35 91 62
55	II T RESEARCH INSTITUTE Chicago Illinois Chicago O Hare Illinois Lanham Maryland Rome New York Syracuse New York Dayton Ohio Oak Ridge Tennessee	63,424 * 60,731 1,320 483 60 75 100 655			
57	PENNSYLVANIA STATE UNIV State College Penn	61,621 * 61,621			
60	INSTITUTE FOR DEF ANALYSES Alexandria Virginia	60,081 * 60,081			
62	DRAPER CHARLES STARK LAB INC Cambridge Mass	58,489 * 58,489			
63	CARNEGIE MELLON UNIVERSITY Pittsburgh Penn	57,229 * 57,229			
71	UNIVERSITY OF TEXAS SYSTEM Arlington Texas Austin Texas Dallas Texas El Paso Texas Galveston Texas San Antonio Texas	49,047 * 50 48,211 50 359 130 247			
73	UTAH STATE UNIVERSITY Logan Utah	44,562 * 44,562			
77	UNIVERSITY OF CALIFORNIA Berkeley California Davis California Irvine California Los Angeles California Placentia California Riverside California San Diego California San Francisco California Santa Barbara California Santa Cruz California	39,259 * 6,642 929 2,556 5,287 3,489 90 8,749 1,832 9,376 309			
80	SRI INTERNATIONAL Los Angeles California Menlo Park California Washington D.C. Melbourne Florida	37,067 * 162 36,587 246 72			

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**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars	
	BATTELLE MEMORIAL INSTITUTE			UNIVERSITY OF PITTSBURGH	9,619 *	
	Sparta New Jersey	31		Johnstown Penn	8,130	
	Teterboro New Jersey	71		Pittsburgh Penn	1,425	
	Las Cruces New Mexico	114		Morgantown W Virginia	64	
	Los Alamos New Mexico	69				
	Socorro New Mexico	39		UNIVERSITY OF MARYLAND	9,145 *	
	Binghamton New York	48		Washington D.C.	69	
	Brookhaven New York	26		Adelphi Maryland	753	
	Ithaca New York	27		Baltimore Maryland	1,800	
	Northport New York	37		College Park Maryland	6,291	
	Columbus Ohio	20,400		Newark New Jersey	83	
	Dayton Ohio	90			CHILE	
	Hilliard Ohio	85			149	
	Milford Ohio	35		GEORGIA INSTITUTE TECHNOLOGY	9,032 *	
	Plain City Ohio	44		Atlanta Georgia	9,032	
	Norman Oklahoma	156		CORNELL UNIVERSITY	8,946 *	
	Corvallis Oregon	31		Ithaca New York	8,819	
	Ambler Penn	31		New York New York	127	
	Bethlehem Penn	34		RIVERSIDE RESEARCH INSTITUTE	8,559 *	
	Pittsburgh Penn	32		New York New York	8,559	
	State College Penn	42		NATIONAL ACADEMY SCIENCES USA	8,233 *	
	Kingston Rhode Isld	34		Washington D.C.	8,233	
	Tullahoma Tennessee	41		WOODS HOLE OCNGRPHIC INSTUTE	8,207 *	
	College Statio Texas	30		Woods Hole Mass	8,207	
	Dallas Texas	31		UNIVERSITY OF ALABAMA	7,830 *	
	Denton Texas	68		Birmingham Alabama	389	
	El Paso Texas	115		Huntsville Alabama	7,344	
	Houston Texas	54		Oneonta Alabama	52	
	Prairie View Texas	30		Tuscaloosa Alabama	45	
	Waco Texas	65		UNIVERSITY OF MINNESOTA	7,824 *	
	Arlington Virginia	136		Duluth Minnesota	89	
	Hampton Virginia	30		Minneapolis Minnesota	1,103	
	Norfolk Virginia	68		St Paul Minnesota	6,632	
	Springfield Virginia	151		UNIVERSITY OF PENNSYLVANIA	7,422 *	
	Vienna Virginia	399		Philadelphia Penn	7,422	
	Pullman Washington	43		HUDSON INSTITUTE INC	7,079 *	
	Richland Washington	96		Indianapolis Indiana	7,079	
	Madison Wisconsin	36		NEW MEXICO STATE OF	6,912 *	
	Menomonie Wisconsin	30		Albuquerque New Mexico	1,204	
	Laramie Wyoming	28		Kirtland AFB New Mexico	5,643	
				Socorro New Mexico	65	
109	STANFORD UNIVERSITY	23,317 *		SOUTHWEST RESEARCH INSTITUTE	6,862 *	
	Sand Hill California	857		Los Angeles California	42	
	Stanford California	22,460		St Louis Missouri	43	
113	UNIVERSITY OF DAYTON	22,216 *		San Antonio Texas	6,463	
	Williams AFB Arizona	2,906		San Diego Texas	314	
	Edwards AFB California	2,562		UNIVERSITY OF MICHIGAN	6,698 *	
	Dayton Ohio	16,155		Albion Michigan	51	
	Montgomery Ohio	593		Ann Arbor Michigan	6,526	
				Lansing Michigan	121	
117	TRIDENT TECHNICAL COLLEGE	21,022 *		251	SALK INST FOR BLGICAL STUDIES	6,627 *
	Charleston S Carolina	21,022		San Diego California	30-	
119	LOGISTICS MGT INSTITUTE	20,311 *		Swiftwater Penn	6,657	
	Washington D.C.	627		GENERAL HOSPITAL CORPORATION	6,580 *	
	Bethesda Maryland	19,684		Boston Mass	6,580	
150	ENVIRONMNTL RESCH INST OF MICH	13,724 *		RESEARCH TRIANGLE INSTITUTE	6,206 *	
	Ann Arbor Michigan	13,724		Norcross Georgia	37	
155	NEW MEXICO STATE UNIVERSITY	13,507 *		Raleigh N Carolina	284	
	Las Cruces New Mexico	6,189		Research Trian N Carolina	5,885	
	White Sands Ms New Mexico	7,318				
172	UNIVERSITY OF ILLINOIS	10,908 *				
	Caldwells Illinois	28				
	Champaign Illinois	9,043				
	Chicago Illinois	1,202				
	Savoy Illinois	74				
	Urbana Illinois	561				

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**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
272	RUTGERS THE STATE UNIVERSITY New Brunswick New Jersey Piscataway New Jersey	5,721 * 5,196 525	357	HARVARD UNIVERSITY Cambridge Mass Southboro Mass	3,713 * 2,746 967
281	UNIVERSITY OF ARIZONA Tempe Arizona Tucson Arizona	5,515 * 97 5,418	363	VIRGINIA PLYTECHNIC INST ST UNI Blacksburg Virginia	3,567 * 3,567
286	SOUTHEASTN CTR ELECTR ENG ED Long Beach California Orlando Florida Saint Cloud Florida Bedford Mass Boston Mass Wright Patters Ohio Salt Lake City Utah	5,261 * 142 3,209 1,199 525 36 116 34	364	UNIVERSITY OF VIRGINIA Washington D.C. Austin Texas Charlottesville Virginia	3,547 * 104 1,173 2,270
289	COLUMBIA UNIVERSITY New York New York Oyster Bay New York	5,215 * 4,995 220	367	STATE UNIVERSITY OF NEW YORK Albany New York Buffalo New York Stony Brook New York	3,493 * 2,216 1,072 205
298	BOSTON UNIVERSITY Boston Mass Springfield Mass	4,954 * 4,358 596	375	BOSTON COLLEGE Bedford Mass Boston Mass Newton Mass	3,427 * 449 2,773 205
302	UNIVERSITY OF LOWELL Lowell Mass	4,842 * 4,842	378	UNIVERSITY OF UTAH Salt Lake City Utah	3,394 * 3,394
303	NORTH CAROLINA STATE UNIV Raleigh N Carolina	4,763 * 4,763	385	SYRACUSE UNIVERSITY Syracuse New York	3,320 * 3,320
305	CALIFORNIA INST OF TECHNOLOGY Pasadena California	4,735 * 4,735	392	CALIFORNIA ST UNIV SAN DIEGO San Diego California	3,198 * 3,198
307	SOUTHERN METHODIST UNIVERSITY Dallas Texas	4,709 * 4,709	398	UNIVERSITY OF CENTRAL FLORIDA Melbourne Florida Orlando Florida	3,122 * 34 3,088
308	UNIVERSITY OF MASSACHUSETTS Amherst Mass Worcester Mass	4,691 * 4,014 677	405	VANDERBILT UNIVERSITY THE Nashville Tennessee	3,052 * 3,052
316	PRINCETON UNIVERSITY Princeton New Jersey	4,496 * 4,496	411	UNIVERSITY OF COLORADO Boulder Colorado Colorado Spring Colorado Denver Colorado	2,980 * 2,369 194 417
327	UNIVERSITY OF ROCHESTER Rochester New York	4,312 * 4,312			
331	MERCER UNIVERSITY Macon Georgia Robins AFB Georgia Warner Robins Georgia	4,237 * 670 2,140 1,427	419	BROWN UNIVERSITY Providence Rhode Isld	2,894 * 2,894
333	SOUTHERN RESEARCH INSTITUTE Birmingham Alabama	4,156 * 4,156	425	MAYO FOUNDATION Rochester Minnesota	2,832 * 2,832
347	UNIVERSITY OF WISCONSIN SYSTEM Kenosha Wisconsin Madison Wisconsin Milwaukee Wisconsin	3,866 * 39 2,934 893	439	UNIVERSITY RESEARCH FOUNDATION Greenbelt Maryland	2,669 * 2,669
349	UNIVERSITY OF FLORIDA Fusseels Corner Florida Gainesville Florida Tampa Florida	3,849 * 481 3,103 265	452	AUBURN UNIVERSITY Auburn Alabama Huntsville Alabama	2,614 * 2,448 166
352	DUKE UNIVERSITY Durham N Carolina	3,775 * 3,775	460	COLORADO STATE UNIVERSITY Fort Collins Colorado	2,522 * 2,522
354	RENSSELAER POLYTECHNIC INST Troy New York	3,757 * 3,757	476	PURDUE UNIVERSITY West Lafayette Indiana	2,345 * 2,345
			487	MICHIGAN TECHNICAL UNIVERSITY Houghton Michigan	2,274 * 2,274
			498	NYSERNET INC Syracuse New York	2,145 * 2,145

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**Table 3. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Educational and Nonprofit Institutions: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
500	CLEMSON UNIVERSITY Patuxent River      Maryland Clemson              S Carolina	2,127 * 109 2,018 TOTAL              2,751,340			

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**Table 4. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to Foreign Contractors: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
51	ISRAEL AIRCRAFT INDUSTRIES LTD ISRAEL	70,011 * 70,011			
67	RAM SYS GMBH GERMANY F	50,824 * 50,824			
157	CANADIAN COMMERCIAL CORP CANADA	13,158 * 13,158			
159	UNITED KINGDOM MINISTRY OF DEF UNITED KIN	13,042 * 13,042			
171	TADIRAN ELECTRONIC INDUSTRIES ISRAEL	10,993 * 10,993			
180	CONTROL DATA CANADA LTD CANADA	10,285 * 10,285			
217	DEUTSCHE BUNDESPOST GERMANY F	7,938 * 7,938			
222	MESSERSCHMITT BOELKOW BLOHM GERMANY F	7,794 * 7,794			
390	ATM COMPUTER GMBH GERMANY F	3,227 * 3,227			
	TOTAL	187,272			

- = Minus Amount (Cancellations Exceed New Awards)  
S = Small Business

**Table 5. Net Value of DOD Prime Contract Awards Over \$25,000  
for RDT&E to U.S. Government Agencies: FY 1990**

Rank	Name of Contractor Location of Work	Thousands of Dollars	Rank	Name of Contractor Location of Work	Thousands of Dollars
297	UNITED STATES DEPT OF COMMERCE Boulder Colorado Washington D.C. Gaithersburg Maryland Rockville Maryland National Space Miss Seattle Washington	4,976 * 1,161 1,057 2,269 137 168 184			

- = Minus Amount (Cancellations Exceed New Awards)  
S = Small Business